

## APPLICATIONS FOR ADMISSION AND FOR TRANSFER

The Constitution provides that the Board of Direction shall elect or reject all applicants for *Admission* or for *Transfer*, and, in order to determine justly the eligibility of each candidate, the Board must depend largely upon the Membership for information.

This list is issued to members in every grade for the purpose of securing all such available information, and every member is urged to scan carefully each monthly list of candidates and to furnish the Board with data in regard to any applicant which may aid in determining his eligibility. It is the *Duty* of all *Members* to the *Profession* to assist the Board in this manner.

It is especially urged, in communications concerning applicants, that errors in the record be pointed out and a *Definite Recommendation as to the Proper Grading in Each Case* be given, inasmuch as the grading must be based upon the opinions of those who know the applicant personally, as well as upon the nature and extent of his professional experience. If facts exist derogatory to the personal character or to the professional reputation of an applicant, they should be promptly communicated to the Board. *Communications Relating to Applicants are considered by the Board as Strictly Confidential.*

The Board of Direction will not consider the applications herein contained from residents of North America until the expiration of thirty (30) days, and from non-residents of North America until the expiration of ninety (90) days from October 1, 1928.

### MINIMUM REQUIREMENTS FOR ADMISSION

Grade	General Requirement	Age	Length of Active Practice	Responsible charge of work
Member	Qualified to design as well as to direct work	32 years	12 years*	5 years
Associate Member	Qualified to direct work	25 years	8 years*	1 year
Junior	Qualified for sub-professional work	18 years†	4 years*	
Affiliate	Qualified by scientific acquirements or practical experience to co-operate with engineers			
Fellow	Contributor to the permanent funds of the Society			

\* Graduation from a school of engineering of recognized reputation is equivalent to 4 years' active practice.

+ Membership ceases at age of 32 unless transferred to higher grade.

## LIST OF APPLICANTS.

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MATERIALS FOR THIS LIST ARE PROVIDED BY THE UNITED STATES GOVERNMENT

The fact that applicants give the names of certain members as references does not necessarily mean that such members endorse.

The number in the center above each record indicates the serial number of the applicant for the current year, and that at the left the district in which he resides.

The abbreviations in Italics represent, respectively, *TT*, Total Time; *SP*, Sub-Professional Work; *P*, Professional Work; *RC*, Responsible Charge; *D*, Design. The figure for Total Time is determined by adding one-half the time spent in Sub-Professional Work to the time spent in Professional Work. The figures showing the amount of time spent in Responsible Charge and on Design are the estimate of the Applicant. The allowance of four years for graduation and of one-half of a year for each academic year successfully completed in an engineering college without graduation is included in Total Time and Professional Work.

### FOR ADMISSION

1241

(9) **ANDREWS, ALFRED STOKES**, 1880 Garfield Rd., East Cleveland, Ohio. (Age 25. Born Dayton, Ohio.) 1926 B. S., Carnegie Inst. Tech. *TT 4: P 4*. Summer 1925 Engr., Raymond Concrete Pile Co., on factory foundation, Zelienople, Pa. July 1926 to March 1928 Archt's Supt., with Walker & Weeks, Archts., Cleveland, Ohio, on Hollenden Hotel addition, 12-story hotel and garage, and remodeling of Guardian Bank. *TT 1.3: SP 0.5: P 0.8: RC 0.8*. March 1928 to date with U. S. Fidelity & Guaranty Co., Cleveland Branch, as Contr. Bond Special Agt. for Ohio. *TT 0.3: SP 0.3: TT 5.6: SP 0.8: P 4.8: RC 0.8*. Refers to C. G. Dunnells, A. M. Quick, C. B. Stanton.

1242

(1) **ANDREWS, ERIC ALEXIS**, 85 Rockledge Ave., White Plains, N. Y. (Age 26. Born Bordeaux, France.) 1927 C. E., Cornell Univ. *TT 4: P 4*. June 1927-Jan. 1928 Jun. Asst. Engr., New York State Highway Dept., being Inspector on construction of concrete pavements and at asphalt plant and Asst. to Engr. in charge of grade elimination project over Long Island R. R. *TT 0.8: SP 0.8*. Feb. 1928 Transitman, Westchester County San. Comm., White Plains, N. Y. March 1928 to date with James H. Fuertes, Cons. Engr., New York City, as Transitman and Chf. of Party on sewer survey of Linden, N. J., Draftsman and Computer in office, Designer of storm-water drains and sanitary sewers, Estimator, etc. *TT 0.3: SP 0.3: D 0.1: TT 4.6: SP 4.6: D 0.1*. Refers to F. A. Barnes, J. H. Fuertes, R. H. Gould, J. E. Perry, E. W. Schoder, R. Y. Thatcher.

1243

(1) **BADEAU, CARROLL ANNIN**, 121 South Second Ave., New Brunswick, N. J. (Age 22. Born Bethlehem, Pa.) 1928 B. S. in Mun. and San Eng., Rutgers Univ. Summer 1927 and Aug. 1928 to date with Clyde Potts, New York City, surveying, plotting, and designing earth dam for a reservoir. *TT 4: P 4*. Refers to W. Gavett, F. H. Guerlin, C. Potts, E. H. Rockwell.

1244

(4) **BARNETT, HARRY**, 2 South Clinton Ave., Trenton, N. J. (Age 20. Born Atlanta, Ga.) 1928 B. S. in C. E., Ga. School Tech. Summer 1928 Inspector on levee construction, Mississippi River Comm. Aug. 1928 to date Jun. Engr. (Hydr.), U. S. Geological Survey, Water Resources. *T 4: P 4*. Refers to R. P. Black, F. C. Snow.

1245

(12) **BASHORE, HARRY WILLIAM**, Vale, Ore. (Age 48. Born Palmyra, Mo.) 1899 A. B., LaGrange (Mo.) Coll. 1906 B. S. in C. E., Univ. of Mo. *TT 4 P 4*. June to Nov. 1906 Asst., Engr. Corps, Baltimore & Ohio South Western R. R., in charge of party on maintenance of way. *TT 0.5: P 0.5: RC 0.5*. Dec. 1906 to date with U. S. Reclamation Service as follows: Dec. 1906 to Feb. 1908 Eng. Aid on designs, estimates, specifications and construction for canal excavation, Second Div., Second Lateral Dist., North Platte Project; March 1908 to

Sept. 1909 Jun. Engr. and Asst. Engr. on designs, estimates and construction of structures, Second Div., Interstate Canal, and designs and construction of canal excavation and structures, First Div., First Lateral Dist., same Project; Oct. 1909 to April 1915 Asst. Engr. on designs, estimates, specifications and construction of canal excavation on Third Main Canal Div. and Third Lateral Dist., same Project (4 months), on surveys, designs, estimates in connection with Goshen Park High Line and Ft. Laramie Canals of same Project, studies of reservoir and dam sites, four sites for Guernsey Dam, preliminary location on Goshen Park and Ft. Laramie Canals and final location on latter (2 3/10 years), construction of 1 mile West Canal, Uncompahgre Project, Colo. (about 3 months), acted as Prin. Asst. to Res. Engr. on construction on North Platte Project of Dam No. 1 (\$140 000) and construction of Minatari Dam (\$540 000) (about 4 months), and acted as Res. Engr. on these dams (2 1/2 years); May 1915 to March 1918 Asst. Engr. and Engr., being Prin. Asst. to Constr. Engr. on Ft. Laramie Div., North Platte Project; April 1918 to Dec. 1924 Engr. until April 1919 being Constr. Engr. on irrigation structures (\$600 000), Ft. Laramie Div., North Platte Project, then Asst. Project Mgr., same Project, in charge of construction (Northport and Ft. Laramie Divs., \$1 050 000, and \$8 000 000) drainage works for Interstate Div. (\$50 000 annually); Jan. 1925 to Jan. 1927 Engr. being Supt., same project, on operation and maintenance of three storage dams, 2 500 miles of irrigation canals and laterals (\$400 000 annually) operation and maintenance of Lingle Power Plant and 80 miles of transmission lines (\$75 000 annually) completion of project drainage system (\$75 000 annually); construction of Guernsey Dam and Power Plant (\$700 000 annually); since Feb. 1927 Constr. Engr., Vale Project, Ore., construction of drainage system for Warm Springs Irrigation Dist. (\$300 000) and project to irrigate 30 000 acres (estimated cost \$3 500 000). TT 21.7: P 21.7: RC 20.8: D 6.5. TT 26.2: P 26.2: RC 21.3: D 6.5. Refers to A. P. Davis, D. C. Henny, W. H. Nalder, O. T. Reedy, J. L. Savage, R. F. Walter, A. Weiss, F. E. Weymouth.

1246

(1) BAUER, CLIFFORD WILLIAM, Y. M. C. A., Morristown, N. J. (Age 25. Born New York City.) 1926 B. S. in Mech. Eng., Pa. State Coll. TT 4: P 4. June 1926 to July 1927 Instrumentman, Gen. Eng. & Management Corporation, at Whippng, N. J., on power-plant construction. TT 0.8: SP 0.2: P 0.6. July 1927 to Feb. 1928 Gen. Foreman and Asst. to Supt., completing construction of power plant for Jersey Central Power & Light Co. TT 0.5: P 0.5. May 1928 to date Field Engr., Public Service Production Co., on switching station construction at Roseland, N. J.; at present in charge of layout work in field. TT 0.2: P 0.2: RC 0.2. TT 5.5: SP 0.2: P 5.3: RC 0.2. Refers to P. B. Breneman, R. L. Sackett.

1247

(7) BEINHAUER, FRANK HUGH, 3359 Warren Ave., Chicago, Ill. Graduating student awarded Central Illinois Section prize. (Age 22. Born Dows, Iowa.) 1928 B. S., Univ. of Ill. TT 4: P 4. Refers to H. Cross, J. J. Dolan, W. C. Huntington, G. W. Pickels, C. C. Wiley.

1248

(5) BELL, CARTER LOUIS, P. O. Box 1302, Norfolk, Va. (Age 36. Born Birmingham, Ala.) July 1910 to July 1911 Rodman and Chainman with L. E. Thornton, on subdivision and surveying, Pensacola, Fla. TT 0.5: SP 0.5. July 1911 to April 1913 Levelman, Transi- man, Draftsman and Paving Inspector, City of Pensacola, on sewers, paving, surveys, stadia work, etc. TT 1: SP 0.8: P 0.2. May to Nov. 1913 Field Engr. with Stone & Webster, Inc., on new steam power station at Pensacola. TT 0.5: P 0.5. Dec. 1913 to March 1914 Land Surveyor, with Geo. E. Cadman, Atmore, Ala. TT 0.2: P 0.2. March to July 1914 and Dec. 1914 to March 1915 Export Cargo Checker with J. S. Hiedelberg, supervising loading and checking of cargoes, Mobile, Ala. TT 0.5: P 0.5. July to Nov. 1914 Bldg. Inspector, City of Mobile, U. S. Govt., inspection of docks, warehouses and waterfront property. TT 0.3: P 0.3. April to June 1915 Field Engr. and Timekeeper, M. G. O'Neil & Sons, instrument level work on storm and sanitary sewerage system for Brenham, Tex. TT 0.2: P 0.2. June 1915 to date (except May 1918 to May 1919 Sergeant, Engrs., U. S. Army, Le Mans, France, in charge of building barracks, target ranges, deep well pumps and hospital additions) with Stone & Webster, Inc. as follows: June to Oct. 1915 Track Engr. on double track work, Dallas, topographical survey and test borings; Oct. 1915 to Feb. 1916 Draftsman on redesign of Galveston Causeway and Field Engr. on special track work, Dallas Interurban Bldg.; March to July 1916 Office Engr. and Foreman on reinforcing steel, steam power station for New Bedford Gas & Edison Light Co.; July to Dec. 1916 Foreman and Night Supt. night work boiler house, Bethlehem Steel Co.; Jan. to April 1917 Gen. Foreman on construction of rod and wire mill for Youngstown Sheet & Tube Co., Struthers, Ohio; May to Aug. 1917 Gen. Foreman, being Asst. in charge on reinforced concrete factory building for Gen. Fireproofing Co.;

Aug. to Nov. 1917 Night Supt. on construction of reinforced concrete ore bin for Briar Hill Steel Co.; Dec. 1917 to Jan. 1918 Office Engr., Washington, D. C., interviewing applicants for U. S. Govt. work in France; Jan. to May 1918 Gen. Foreman on construction of 96 powder magazine buildings and 15 miles of railroad track, Picatinny Arsenal, Dover, N. J.; July to Sept. 1919 Appraisal Engr. in charge of survey party on New York St. Ry., Interborough Rapid Transit and Brooklyn Rapid Transit track work; Sept. to Dec. 1919 Field Engr. in charge of party and Material Foreman on reinforced concrete factory building for G. & J. Tire Co., Indianapolis, Ind.; Jan. to Aug. 1920 Bldg. Foreman on construction of reinforced concrete manufacturing building for Hartford Rubber Co.; Aug. 1920 to April 1921 Gen. Foreman on outside work on reinforced concrete and brick factory buildings for Trenton (N. J.) Potteries; May to July 1921 Concrete Floor Inspector, American Sugar Refineries Co., Baltimore, Md.; Aug. 1921 to Aug. 1922 Supervising Engr., Watertown, Mass., supervising construction of Watertown Junior High School; Aug. 1922 to July 1923 Supt. of Constr. until March 1923, supervising construction of reinforced concrete and brick warehouse and office building for J. B. Inderden & Bros., Chicago, Ill., then on addition to factory building for Simplex Wire & Cable Co., Cambridge, Mass., and after July 1923 on Ford Factory and Assembly Plant, also oil house, tunnels and railroad trackage, St. Paul, Minn.; July 1925 to Jan. 1926 Bldg. Foreman on boiler house construction on Richmond Station for Philadelphia Elec. Co.; Feb. 1926 to date Supt. of Constr. until May 1926 on testing laboratory for Westinghouse Lamp Works, Bloomfield, N. J.; May 1926 to May 1927 on 51 miles 110 000 and 21 miles of 33 000 volt transmission line and four substations between Roanoke Rapids and Scotland Neck, N. C.; May to Aug. 1927 on releveling 1 000 000 cu. ft. gasholder, redriving, piling and replacing concrete on dock for Connecticut Light & Power Co., New London, Conn.; Sept. 1927 to Feb. 1928 on indoor and outdoor substation for Abington, Rockland Light & Power Co., North Abington, Mass.; since April 1928 on construction of 3 000 000 cu. ft. water type gasholder for City Gas Co., Norfolk, Va. TT 13.3: P 13.3: RC 11.9. TT 16.5: SP 1.8: P 14.7: RC 11.9. Refers to J. S. Adey, E. G. Addison, C. R. Chadwick, J. T. Chase, A. L. Hartridge, J. H. Hood, J. H. Manning, C. E. Nichols, L. S. Oakes, W. N. Patten, E. K. Sheble, R. G. Taber, L. E. Thornton, L. J. Towne.

1249

(1) BIDDLE, CHARLES CHANDLEE, 6 Church St., Ossining, N. Y. (Age 24. Born Millville, Pa.) 1928 B. S., Pa. State Coll. TT 4: P 4. Refers to R. O'Donnell, E. D. Walker.

1250

(1) BIRBECK, RICHARD, 441 Lexington Ave., New York City. (Age 68. Born Leavenworth, Kans.) 1886 B. S., Univ. of Kans. TT 4: P 4. July 1886 to Dec. 1887 Asst. to Res. Engr., Atchison, Topeka & Santa Fe Ry. TT 0.7: SP 0.7. Jan. to July 1888 County Surveyor, Stafford County, Kans. TT 0.5: P 0.5. Aug. 1888 to Dec. 1890 with K. C. W. & N. W. R. R., transit, topography and drafting. TT 1.4: P 1.4. May 1891 to May 1892 Surveyor and Draftsman, Kentucky Mountains, land surveys. TT 1: P 1. June 1892 to Aug. 1895 with Watts Steel & Iron Syndicate, Tenn., as Engr. of mine work; design and construction of gravity inclines, tailrace system, tipplers, tipple trestles, slopes, entrys, installation of machinery, also (6 months) Supt. of a mine. TT 3.2: P 3.2: RC 2.7: D 0.5. 1895 to 1897 with B. L. Brown, Cons. Engr., at various places. TT 1.1: SP 0.4: P 0.7. Jan. 1897 to March 1901 with St. Louis, Iron Mountain and Southern Ry., office engineering. TT 4.3: P 4.3: RC 3.4: D 0.9. March 1901 to Sept. 1923 (except 1919 and 1920 Chf. Engr., Atlantic Fruit Co., Cayo Mambi, on railroad construction) Asst. Engr., Chf. Draftsman, Asst. Chf. Engr. and Chf. Engr., The Cuba R. R. Co. TT 20: P 20: RC 15: D 5. Sept. 1923 to date Retired; odd jobs for Cuba Co. TT 22: P 22: RC 16.5 D 5.5. TT 38.2: SP 1.1: P 37.1: RC 22.6: D 6.9. Refers to B. L. Brown, F. W. Cowle, H. E. Riggs, B. B. Shaw, S. F. Shaw.

1251

(10) BLACK, JOHN BRYANT, 53 North Depot St., Dalton, Ga. (Age 24. Born Dalton, Ga.) 1928 B. S. in C. E., and B. S. in E. E., Ga. School Tech. TT 4: P 4. Sept. 1926 to Feb. 1927 in Testing Laboratory of E. V. Camp, also in charge of bituminous macadam pavement. TT 0.2: SP 0.2. June 1928 to date Inspector on base and penetration macadam. TT 0.2: SP 0.2. TT 4.4: SP 0.4: P 4. Refers to R. P. Black, E. V. Camp, F. C. Snow.

1252

(9) BLAKE, PAUL, Care, U. S. Geological Survey, Hardsburg, Ky. (Age 24. Born Cheboygan, Mich.) 1928 B. S., Mich. State Coll. TT 4: P 4. June-Nov. 1924 Rodman, Jan. to May 1925 Instrumentman and Inspector on steam-turbine installation and substation extension, Constr. Dept., and Jan. to Sept. 1927 Instrumentman and Draftsman, Right-of-Way

Dept., on work connected with surveying and mapping of transmission lines, all for Consumers Power Co. TT 0.7: SP 0.7. May to Sept. 1925 and Oct. to Dec. 1926 Instrumentman for R. Russell Snow, on subdivision layout and improvement, also land survey. TT 0.2: P 0.2. TT 4.9: SP 0.9: P 4. Refers to C. S. Allen, C. M. Cade, F. A. Gould.

## 1253

(15) BRACHER, GUSTAV ADOLPH, 717 Elm St., Jacksonville, Tex. (Age 46. Born Langenthal, Switzerland.) 1910 C. E., Univ. of Tex. TT 4: P 4. July to Aug. 1910 Asst., Aug. to Oct. 1910 in charge, reinforced concrete chimney construction, and Oct. to Dec. 1910 Office Engr., drafting, designing and calculation, Duller-Weber Constr. Co. TT 0.3: P 0.3: RC 0.2. Dec. 1910 to April 1912 with El Celeste Irrigation Co., San Antonio, Tex., as Asst. Drainage Engr. on design of intake, 12-mile canal, and 6-in. diameter inverted siphon, measuring weir and preparing plans and (after Aug. 1911) Engr. in charge of construction of canal and siphon, subdivision of 26 000 acres. TT 1.4: P 1.4: RC 0.7: D 0.7. April to Sept. 1912 Office and Field Engr. with E. N. Gustafson, Bay City, Tex., on surveying, subdivision, irrigation, drainage, etc. TT 0.4: P 0.4. Sept. 1912 to Jan. 1913 Asst. with H. Black, Drainage Engr., Markham, Tex., office work, design of canals and concrete structures, surveying, subdivision and supervising construction of drainage ditches. TT 0.3: P 0.3: D 0.1. Jan. 1913 to Oct. 1915 Res. Engr., \$100 000 Palacios Road Dist., Matagorda County, in charge (under Cons. Engr.), on surveys, plans, design of highways and drainage structures and supervision of construction. TT 2.8: P 2.8: RC 2.3: D 0.5. Oct. 1915 to March 1916 City Engr. with City Council, Palacios, Tex., on survey, establishing paving and sidewalk grades, design and construction of sea wall and storm sewer. TT 0.4: P 0.4: RC 0.3: D 0.1. March 1916 to April 1918 County Engr., Palacios and Collegeport Road Dist., and Cons. Engr., Francitas Road Dist.; with Jackson County on surveys, plans, design of highways, drainage structures and supervision of construction; Cons. Engr., Blue Creek Irrigation Co., El Campo, Tex., on rice irrigation. TT 2.1: P 2.1: RC 1.6: D 0.5. April to June 1918 Draftsman and checker, Texas State Highway Dept. TT 0.1: SP 0.1. June 1918 to April 1919 County Engr., Colorado County, on highway survey, design and plans for Highway No. 3. TT 0.8: P 0.8: RC 0.8. April 1919 to Feb. 1921 Highway Engr., Bureau of Public Roads, Dist. No. 13, preliminary plans, construction inspections on Federal Aid projects, review highway plans. TT 1.8: P 1.8: RC 1.8. Feb. 1921 to Jan. 1928 County Engr., Washington County, in charge of \$2 500 000 road program, 110 miles of grading and drainage structure and 57 miles of concrete pavement. TT 6.9: P 6.9: RC 6.9. Jan. to Aug. 1928 Res. Engr., Texas State Highway Dept. and County Engr., Cherokee County, Tex., in charge of preparation of plans. TT 0.6: P 0.6: RC 0.6. TT 21.9: SP 0.1: P 21.8: RC 15.2: D 1.9. Refers to C. A. Clark, J. D. Fauntleroy, G. Gilchrist, W. O. Washington, M. C. Welborn, G. G. Wickline, A. J. Wise.

## 1254

(1) BRADY, EDWARD PAUL, 169 Church St., New Rochelle, N. Y. (Age 21. Born New Rochelle, N. Y.) 1928 B. S. in C. E., Manhattan Coll., New York City. TT 4: P 4. Refers to J. J. Costa, E. T. Cranch.

## 1255

(1) BROWN, RALPH IRVING, Central Vertientes, Vertientes, Camaguey, Cuba. (Age 38. Born Bucksport, Me.) Oct. 1911 to Dec. 1912 Surveyor, railroad location, later on construction of 15 miles of narrow gauge railroad, Cukra Co. of Toronto, Ltd., Bluefields, Nicaragua, Div. TT 1: SP 0.2: P 0.8: RC 0.8. Feb. to Sept. 1913 Surveyor for British Consul on boundaries of River Plate Trust & Loan Co.'s property, San Jose, Costa Rica. TT 0.6: P 0.6: RC 0.6. Sept. 1913 to Sept. 1914 Civ. Engr. at San Jose, on investigation and surveys of tram lines, banana farms, also surveys for Monctesuma Mines of Costa Rica. TT 1: P 1: RC 1. Sept. 1914 to June 1918 traveling and in Agricultural Dept., Cuyamil Fruit Co., Spanish Honduras. June 1918 to Jan. 1919, Private, 472d Ry. Engrs., U. S. Army, being Instructor in military mapping and planetary topography. TT 0.5: P 0.5. Oct. 1919 to Sept. 1920 Topographical Engr., United Fruit Co., Preston, Cuba, most of time on railroad location and construction. TT 0.9: P 0.9. Sept. 1920 to Feb. 1926 Chf. Civ. Engr., Central Alro Cedro, in charge of civil engineering, land surveys, railroad location, construction, maintenance and office work. TT 5.4: P 5.4: RC 5.4: D 2.5. April-Nov. 1926 Chf. of field party, special inventory, Cuba R. R. Co., under Interstate Commerce Comm. regulations. TT 0.6: P 0.6: RC 0.6. Dec. 1926 to date Civ. Engr. in charge of railroad construction and maintenance, etc., Central Vertientes, Vertientes Sugar Co., Vertientes, Cuba. TT 1.7: P 1.7: RC 1.7: D 0.8. TT 11.7: SP 0.2: P 11.5: RC 10.1 D 3.3. Refers to A. F. DeJongh, J. H. Digby, C. M. Jervis, A. A. Johnson, J. L. Nagle, J. D. Real y Gaillard, W. W. Schuyler.

1256

(3) BRYANT, EDWARD KENDALL, 337 Park Ave., Rochester, N. Y. (Age 26. Born Norwood, Mass.) 1925 C. E., Rens. Pol. Inst. TT 4: P 4. Summer 1924, Feb. to Nov. 1925 and Feb. 1926 to May 1928 with William S. Lozier, as Rodman and Inspector, Member of surveying party on municipal improvement and Inspector on construction of sewers (1924), Designer and Inspector acting as Computer on subdivision layout and Designer and Estimator on sewers, water and pavements, Inspector on sewers and pavement, (1925), and after Feb. 1926 on same work, also Party Chf., on topographical surveys, boundary line surveys and construction. TT 2.4: SP 0.7: P 1.7. Nov. 1925 to Feb. 1926 Designer, with T. Howard Barnes, on sewerage system for City of Santo Domingo. TT 0.8: P 0.8. May 1928 to date Prin. Field Engr. with Roy P. Warren, on supervision of three field parties making boundary line and topographical surveys for a park system. TT 0.3: P 0.3; RC 0.3. TT 7: SP 0.7: P 6.3: RC 0.3. Refers to E. R. Cary, L. W. Clark, C. E. Elmendorf, T. R. Lawson, W. S. Lozier.

1257

(1) BUNNELL, ARTHUR VALENTINE, 34 Stanley Oval, Westfield, N. J. (Age 24. Born New York City.) 1928 B. S. in Civ. Eng., Union Coll. TT 4: P 4. Refers to H. Miller, H. A. Schaufler, W. C. Taylor.

1258

(1) BURES, ANTONIO SANTIAGO, P. O. Box 711, Santo Domingo, Republica Dominicana. (Age 38. Born Adjuntas, Porto Rico.) 1912 C. E., Cornell Univ. TT 4; P 4. July 1912 to Aug. 1913 Draftsman and Surveyor, with H. C. DeLano, office and field work on plans for San Juan Bulkhead Line and Wharves at San Juan and Ponce, Porto Rico; work under supervision of War Dept., Washington, D. C. TT 0.5: SP 0.5. Sept. 1913-Dec. 1914, July 1916-Dec. 1917 and June 1922-Feb. 1927 with Dept. of Interior, San Juan, Porto Rico, engaged as follows: Sept. 1913-Feb. 1914 Draftsman, on design of water-works and sewer systems; March-Dec. 1914 Surveyor and Draftsman, on surveys and plans of lands; July 1916-Dec. 1917 Superv. Engr., supervising construction of government buildings; June 1922-Feb. 1927 Contr. of Public Works; constructed three buildings, two aqueducts and two hydro-electric plants. TT 5.9: SP 0.7: P 5.2: RC 4.7. Jan. 1915-March 1916 on design and construction of concrete houses at Adjuntas, Porto Rico. TT 1.2: P 1.2: D 0.8. Jan. 1918 to March 1922 Asst. Chf. Engr., South Porto Rico Sugar Co., on design and construction of bridges, railroads, machinery foundations, steel structures, pumping plants and irrigation. TT 4.2: P 4.2: RC 3.2: D 2.5. March-Oct. 1927 on plans and specifications for highway, including design of concrete structures. TT 0.6: P 0.6: RC 0.6: D 0.2. Nov. 1927-March 1928 Asst. Engr., Del Valle & Co., San Juan, in charge of field work on plans for Puerto Plata Water-Works. TT 0.4 P 0.4. May 1928 to date Asst. Designer, Santo Domingo Public Works, on design of sewer system. TT 0.3: P 0.3: D 0.3. TT 17.1: SP 1.2: P 15.9: RC 8.5: D 3.8. Refers to J. M. Adams, J. W. Beardsley, H. C. DeLano, R. A. Gonzalez, A. S. Lucchetti-Otero, R. Ramirez, C. del Valle Zeno.

1259

(1) BYRNES, JOHN EDWARD, 471 West 125th St., New York City. (Age 22. Born New York City.) 1928 B. S. in C. E., Manhattan Coll. TT 4: P 4. Refers to J. J. Costa, M. Moreno, J. H. Myers, C. D. Searle.

1260

(1) CARCHIO, ERNEST, 414 Park Ave., East Orange, N. J. (Age 34. Born Laviano, Italy.) 1921 C. E., Univ. of Naples. TT 4: P 4. July 1921 to Dec. 1922 Civ. Engr., S. Lanjara & Sons, Engrs. and Contrs., acting as Inspector on field construction; Designer. TT 1.3: SP 0.1: P 1.2: RC 1: D 0.2. Feb. to July 1923 and June to Dec. 1925 with A. D'Antona, Cons. Engr., New York City, as Structural Steel Designer, design of apartment houses, etc., and (1925) Draftsman and Designer on reinforced concrete foundations. TT 1.1: P 1.1: RC 1.1: D 1.1. Aug. 1923 to May 1925 Draftsman and Designer, J. Di Stasio & Co., New York City, on details and design of reinforced concrete construction, loft and office buildings and hotels. TT 1.3: SP 0.5: P 0.8: RC 0.2: D 0.5. Jan. to April 1926 Draftsman, Hay Foundry & Iron Works, on structural steel details. TT 0.2: SP 0.2. May 1926 to date Draftsman and Designer for T. E. Murray, New York City, on reinforced concrete construction design and details. TT 1.6: SP 0.6: P 1: RC 1: D 1. TT 9.5: SP 1.4: P 8.1: RC 3.3: D 2.9. Refers to U. W. T. Berg, J. J. Conrad, T. Holst-Grubbe, H. C. Riesbol, M. P. Van Buren.

1261

(15) CHRISTOPHER, WILLIS CLINTON, 2a San Juan de Letran 24, Mexico City, Mexico. (Age 39. Born Genesee, Idaho.) 1911 B. S. in C. E., Univ. of Wash. TT 4: P 4. June 1911 to April 1912 and April 1913 to April 1914 Foreman, Edgewater Sand & Gravel Co., Seattle, Wash., in charge of gravel-washing plant. TT 1: SP 1. April 1912 to April 1913

Draftsman, Grant Realty Co., Neppel, Wash., on layout and design of minor structures on irrigation project. TT 0.5: SP 0.5. April 1914 to June 1920 and Nov. 1920 to Nov. 1927 with U. S. Reclamation Service, 4 years at St. Ignatius, Mont., as Canal Rider, Surveyman and Jun. Engr. on canal operation, etc. Flathead Irrigation Project, and remainder of time Asst. Engr., at St. Ignatius acting as Office Engr. in charge of project office, surveys and inspection (2 1/10 years), at Denver, Colo., on layout and design of irrigation structures (about 9 months), at Rimrock, Wash., acting as Office Engr. in charge of office, surveys and inspection on Tieton Dam (4 1/2 years) and at American Falls, Idaho, acting as Office Engr. in charge of office on American Falls Dam (1 year). TT 10: SP 2: P 8: RC 7.3: D 8. Aug. to Nov. 1920 Foreman with Rich, Markhus & Crowe, Missoula, Mont., on road construction. TT 0.3: P 0.3. April 1927 to date Engr. J. G. White Eng. Corporation, San C. Mexico, being Office Engr. on Rio Conchos Project (9 months) and in Mexico City office on design and studies of irrigation work for Mexican Govt. TT 1.3: P 1.3: RC 0.7: D 0.5. TT 17.1: SP 3.5: P 13.6: RC 8: D 8.5. Refers to F. A. Banks, F. T. Crowe, C. C. Fisher, J. Hinds, C. H. Howell, J. L. Savage, F. E. Weymouth.

1262 (1)

(1) CLEARY, CHARLES NORMAN, 265 Mill St., Westwood, N. J. (Age 35. Born New York City.) 1915 C. E., Columbia Univ. TT 4: P 4. June 1915 to Jan. 1916 Chf. of Party for W. E. Sexton, Inc., Mineola, N. Y., sub-divisions, water-works design and erection, street re-grading, etc. TT 0.5: P 0.5. Jan. 1916 to Oct. 1917 Eng. Inspector and Field Engr. New York Central R. R., New York City, being Transitman on track layouts; in charge of erection of 2 freight piers and docks, piershed, chimney and boiler foundations, construction of ice-house, etc. TT 1.5: SP 0.3: P 1.2: RC 1. Oct. 1917 to Oct. 1918 Civ. Engr. Federal Shipbuilding Co., Kearny, N. J., designed and supervised construction of twelve miles of standard gauge railroad tracks for plant, supervised construction of various buildings, etc. TT 1: P 1: RC 1: D 1. Oct. 1918 to Jan. 1919 with U. S. Army, Private in Officers' Training Co. of Tank Corps; 2d Lieut., Eng. Officers Reserve Corps. Jan. 1919 to Jan. 1920 Draftsman, New York Div., Pennsylvania R. R., revaluation, estimating future betterments, bridge inspections, etc. TT 0.5: SP 0.5. Jan. 1920 to Jan. 1921 Steel Engr. and Asst. Supt., White Constr. Co., Inc., New York City, in charge of fabrication and erection of reinforced steel for concrete buildings, also on field engineering and in charge in absence of Supt. TT 1: P 1: RC 1. Jan. to Nov. 1921 Civ. Engr. Suburban Eng. Co., New York City, quantity estimating for water-works, sewage-disposal plants and pipe-line construction, designed pipe layouts for water-works, etc. TT 0.8: P 0.8: D 0.4. Nov. 1921 to date Field Engr., Distribution Dept., Consolidated Gas Co., New York City, on preliminary surveys and reports for proposed new routes for large trunk and distribution mains, in charge of construction of these mains; loaned to Rosoff-Subway Constr. Co. (9 months) to take charge of gas by passing on two downtown sections. TT 6.8: P 6.8: RC 5. TT 16.1: SP 0.8: P 15.3: RC 8: D 1.4. Refers to S. B. Bowne, C. W. Bryan, Jr., R. E. Dougherty, E. C. Goodwin, W. J. Krefeld, W. C. Morris, G. A. Noren, E. Pendlebury, F. W. Stiefel.

1263 (1)

(15) COLIN, ALFREDO BECERRIL, Camp. Don Martin, Camaron, N. L., Mexico. (Age 35. Born Morelia, Michoacan, Mexico.) 1917 C. E., Escuela Nacional de Ingenieros, Mexico. TT 4: P 4. May to July 1916 Topographer, State of Hidalgo, on surveys. TT 0.2: P 0.2. July 1916 to Oct. 1917 Asst. Engr., Oct. 1917 to July 1919 Topographer and July to Nov. 1919 Engr., Bureau of Waters, Federal Govt., on surveys, estimates and design of dam, etc. TT 3.2: P 3.2. Nov. 1919 to June 1920 Div. Supt. of Federal Waters, in charge of office at Monterrey, N. L., hydrographic work on rivers, canals, etc. TT 0.6: P 0.6: RC 0.6. July 1920 to May 1922 Supt., Irrigating Comm. of Juarez Valley, on canal location, design and construction of structures, etc. TT 1.7: P 1.7: RC 1.7. May to Sept. 1922 in charge of preliminary investigations for irrigation of Ures Valley, Sonora, Mexico. TT 0.2: P 0.2: RC 0.2. Oct. 1922 to Dec. 1923 Supt., Irrigation Comm. for Coahuila, Nuevo Leon and Tamaulipas, on river investigations. TT 1.2: P 1.2: RC 1.2. June 1924 to June 1925 Supt., Rio Nazas Comm., Coahuila, being Gen. Mgr. for distribution system and river improvements. TT 1: P 1: RC 1. June 1925 to April 1926 Supt., Comm. of Investigations of Rio Bravo, on preliminary engineering work for four irrigation projects. TT 0.8: P 0.8: RC 0.8. May 1926 to Feb. 1927 Res. Engr. and March 1927 to date Asst. Constr. Supt., Don Martin Project. TT 2.2: P 2.2: RC 2.2. TT 15.1: P 15.1: RC 7.7. Refers to R. M. Conner, W. L. Gorton, M. M. Mendiola, R. A. See, A. Weiss, F. E. Weymouth.

1264 (1)

(15) COLLINS, WILLIAM HAROLD, 601 Kirby Bldg., Houston, Tex. (Age 30. Born Kansas City, Kans.) 1919 B. S. in C. E., Univ. of Tex. TT 4: P 4. June 1919 to Jan. 1921 Office Engr. (8 months) and Field Engr., Mexican Gulf Oil Co., Tampico, Mexico. TT 1.5: P 1.5:

*RC 1.* Jan. 1921 to March 1922 Field Engr., Cortez Oil Corporation, Tampico. *TT 1.2:* *P 1.2:* *RC 1.2.* March to Nov. 1922 Chf. of Party on subdivision project, International Petroleum Co., Tampico. *TT 0.7:* *P 0.7:* *RC 0.7.* Nov. 1922 to Sept. 1923 and April to Aug. 1924 not on engineering work; drilling oil wells in North Texas. Sept. 1923 to April 1924 general drafting and structural design, Humble Oil & Refining Co., Baytown Refinery. *TT 0.7:* *P 0.7:* *RC 0.7:* *D 0.5.* Aug. 1924 to Aug. 1925 Field Engr. (8 months), Acting Chf. Engr. (3 months) and Office Engr. and Asst. to Chf. Engr. (6 months), Venezuela Gulf Oil Co., at Maracaibo, Venezuela. *TT 1:* *P 1:* *RC 1.* Aug. 1925 to date in private practice as Civ. and Structural Engr., at Houston, principally on subdivision projects for Hermann Hospital Estate. *TT 2:* *P 2:* *RC 2:* *D 2.* *TT 11.1:* *P 11.1:* *RC 6.6:* *D 2.5.* Refers to E. C. H. Bantel, K. G. Howard, J. M. Howe, S. L. Kone, L. H. Schloss.

1265

- (1) **COOK, ROBERT**, Care, Lago Petroleum Corporation, Maracaibo, Venezuela. (Age 21. Born Sanford, Me.) 1928 S. B., Mass. Inst. Tech. *TT 4:* *P 4.* Summer 1927 Jun. Asst. Civ. Engr. (Grade 1, Field), Div. of Public Works, Bureau of Highways, acting as Instrumentman. June 1928 to date Engr., Eng. Dept., Lago Petroleum Corporation, Maracaibo, Venezuela. *TT 4:* *P 4.* Refers to J. B. Babcock, 3d, H. K. Barrows, W. M. Fife, C. M. Spofford.

1266

- (3) **COUGHLIN, THOMAS FRANCIS**, Y. M. C. A., Rochester, N. Y. (Age 21. Born Watervliet, N. Y.) 1928 C. E., Rens. Pol Inst. *TT 4:* *P 4.* June 1928 to date Jun. Asst. Engr. (Grade 1), New York State. *TT 0.2:* *SP 0.2.* *TT 4.2:* *SP 0.2:* *P 4.* Refers to E. R. Cary, L. W. Clark, H. B. Compton, T. R. Lawson, W. W. Rousseau.

1267

- (7) **CULLEN, WALTER HAMILTON**, 1283 Curtis St., Dubuque, Iowa. (Age 38. Born Dubuque, Iowa.) Civ. Eng. course International Correspondence Schools, Scranton, Pa. May 1910 to Aug. 1911 Rodman, City Engr.'s Office, Dubuque, Iowa. *TT 0.6:* *SP 0.6.* July 1913 to May 1916 Rodman with County Engr., Dubuque (July 1913 to Feb. 1914) and Transit-man in charge of party on highway survey, under Jun. Engr., U. S. Dept. of Agriculture, Federal aid project. *TT 1.4:* *SP 1.4.* May 1916 to June 1918 Asst. City Engr., and June 1918 to date City Engr., Dubuque, on design, supervision and construction of municipal works; charge of \$3 500 000 worth of work (May 1920 to May 1925) and Engr. in charge of construction of river terminal for Federal Barge Line, Upper Mississippi River (\$350 000), consisting of steel and concrete warehouse escalator, terminal railroad yard, 740-ft. double-track timber trestle (May 1925 to March 1928). *TT 12.3:* *P 12.3:* *RC 12.3:* *D 12.3.* *TT 14.3:* *SP 2:* *P 12.3:* *RC 12.3:* *D 12.3.* Refers to O. E. Carr, A. H. Fuller, P. F. Hopkins, H. N. Jenks, W. F. Schulz, H. W. Skidmore.

1268

- (1) **DENUE, WILLIAM ROSWELL**, 105 West 105th St., New York City. (Age 23. Born New York City.) 1928 B. S. in C. E., Manhattan Coll. *TT 4:* *P 4.* Refers to J. J. Costa, M. Moreno, J. H. Myers, C. D. Searle.

1269

- (4) **DRURY, WILLIAM GEORGE**, 3 South Front St., Harrisburg, Pa. (Age 24. Born Pittston, Pa.) 1925 C. E., Lehigh Univ. *TT 4:* *P 4.* July 1925 to date Asst. Engr., Dept. of Forests and Waters, Commonwealth of Pennsylvania. *TT 2.6:* *SP 0.5:* *P 2.1:* *RC 1.5.* *TT 6.6:* *SP 0.5:* *P 6.1:* *RC 1.5.* Refers to G. S. Beal, S. A. Becker, R. J. Fogg, R. H. Hosmer, H. G. Payrow.

1270

- (9) **EMERY, PAUL**, 707 East 185th St., Cleveland, Ohio. (Age 38. Born Topeka, Kans.) 2 years student, Univ. of Illinois. *TT 1:* *P 1.* June 1910 to April 1917 with Topeka (Kans.) Bridge Co., as Draftsman, later Contr. Engr., steel detailing, steel and reinforced concrete bridge designing, in charge of construction. *TT 5.5:* *SP 1.4:* *P 4:* *RC 2:* *D 2.* April to July 1917 Draftsman, steel detailing, Lackawanna Bridge Co., Buffalo, N. Y. *TT 0.3:* *P 0.3.* July 1917 to Dec. 1919 with Ingalls Iron Works Co., Birmingham, Ala., designing, estimating and sales, steel structures. *TT 2.4:* *P 2.4:* *RC 1:* *D 2.4.* Dec. 1919 to June 1923 Asst. Engr., American Rio Grande Land & Irrigation Co., Mercedes, Tex., in charge on design of concrete irrigation structures. *TT 3.5:* *P 3.5:* *RC 3.5:* *D 3.5.* June to Dec. 1923 with Farmers Committee for Water Rate Adjustment, Mercedes, Tex., on investigation and report on irrigation water rates, irrigation water measuring devices and their installation. *TT 0.5:* *P 0.5:* *RC 0.5.* April to Dec. 1924 estimating structural steel, Texas Carnegie Steel Association, Galveston, Tex. *TT 0.7:* *P 0.7.* July 1927 to April 1928 Draftsman, detailing and checking structural steel, American Bridge Co., Ambridge, Pa. *TT 0.8:* *P 0.8.* April 1928

to date Asst. Bridge Engr., Cuyahoga County, Cleveland, Ohio, designing steel and concrete bridges. TT 0.5: P 0.5: RC 0.5: D 0.5. TT 15.1: SP 1.4: P 13.7: RC 7.5: D 8.4. Refers to C. T. Bartlett, C. M. Canady, F. F. Friend; R. V. Leeson, R. G. Manning, F. L. Plummer, L. B. Smith.

1271

(10) EZELL, ESTILL EDWIN, 107 Church St., Greeneville, Tenn. (Age 22. Born Chattanooga, Tenn.) 1928 B. S. in C. E., Ga. School Tech. Summer 1927 Student Highway Engr., with T. Warren Allen, on research and time-study work on concrete highway construction in South Carolina. TT 4: P 4. Refers to R. P. Black, R. S. Fiske, F. C. Snow.

1272

(11) FERGUSON, BEVERLY PEETS, 977 Santa Rosa, San Luis Obispo, Cal. (Age 27. Born New Orleans, La.) 1920 B. E., Tulane Univ. of La. TT 4: P 4. Oct. 1927 to June 1928 post-graduate student, Stanford Univ. Sept. 1920 to Feb. 1921 Chairman, Illinois Central R. R. TT 0.2: SP 0.2. May-Nov. 1921 Levelman, until July 1921 with United Fruit Co., Truxillo, Spanish Honduras, then with Vaccaro Bros. R. R. Co., La Ceiba, Spanish Honduras. TT 0.3: SP 0.3. Jan. to Feb. 1922 Chairman, Louisiana Board of State Engrs. TT 0.1: SP 0.1. June 1928 to date Draftsman, California Highway Comm., Div. V, San Louis Obispo, Cal., also acting as Computer, etc. TT 0.2: SP 0.2. TT 4.8: SP 0.8: P 4. Refers to D. Derickson, C. Moser, L. B. Reynolds, C. B. Wing.

1273

(1) FINLAY, SAM, Glen Ferris, W. Va. (Age 22. Born New York City.) 1926 A. B., 1927 B. S., and 1928 C. E., Columbia School of Mines, Eng. and Chemistry. June 1928 to date Instrumentman, New Kanawha Power Co., Glen Ferris, W. Va. TT 4: P 4. Refers to A. H. Beyer, O. M. Jones.

1274

(10) FINNELL, EDWARD JUDSON, 1618 Alaca Pl., Tuscaloosa, Ala. (Age 36. Born Tuscaloosa, Ala.) 1911 B. S., Marion (Ala.) Inst. Summers 1908-1910 Rodman on sewer work, railroad survey and building construction. Summer 1911 and Jan. 1912 to Jan. 1913 Transitman on railroad survey and Jan. to April 1913 Foreman on sewer construction, with Woolsey Finnell, Montgomery, Ala. TT 0.7: SP 0.7. April to June 1913 Instrumentman, June 1913 to Sept. 1915 Asst. Div. Engr., and Sept. 1915 to Aug. 1916 Research Engr., Mobile & Ohio R. R. Co. TT 3.2: SP 0.1: P 3.1: RC 3.1: D 0.5. Aug. 1916 to Jan. 1917 Asst. Engr., Chicago, Burlington & Quincy R. R. TT 0.4: P 0.4: RC 0.4. Jan. to Aug. 1917 Supt. of Constr. (general contracting). TT 0.6: P 0.6: RC 0.6: D 0.6. Aug. 1917 to June 1919 1st Lieut., 79th U. S. Field Artillery, 7th Div., in United States and France. July 1919 to Jan. 1922 with Illinois Highway Dept., until Sept. 1921 as Jun. Engr., acting as Res. Engr. (about 5 months), Chf. of Party on highway location (6 months) and on office and field work (1½ years), and after Sept. 1921 Asst. Engr. TT 2.4: P 2.4: RC 2.4: D 1.5. Jan. 1922 to date member of firm, Finnell & Toothaiser Co., Gen. Contra. and Cons. Engrs. TT 6.6: P 6.6: RC 6.6: D 6.6. TT 13.9: SP 0.8: P 13.1: RC 13.1: D 9.6. Refers to W. Finnell, C. M. Hathaway, H. H. Houk, G. L. Moulton, F. B. Oren.

1275

(1) FITZGERALD, WALTER FRANCIS ANTHONY, 3426 Ninety-Second St., Jackson Heights, N. Y. (Age 25. Born Philadelphia, Pa.) 1928 B. S. in C. E., Univ. of Pa. TT 4: P 4. June 1922 to Sept. 1924 and summers 1925 and 1926 Draftsman, Roberts Filter Mfg. Co., Darby, Pa., on mechanical and structural work. TT 1.2: SP 1.2. TT 5.2: SP 1.2: P 4. Refers to H. C. Berry, W. H. Chorlton, W. H. Courtenay, E. T. Grandlienard, F. P. Witmer.

1276

(11) GREEN, CARL EDWIN, 2636 Arvia St., Los Angeles, Cal. (Age 22. Born New York City.) 1928 A. B. in Civ. Eng., Stanford Univ. TT 4: P 4. July 1928 to date Operator, Beverly Hills, Cal., water-treatment plant. TT 0.1: SP 0.1. TT 4.1: SP 0.1: P 4. Refers to R. L. Derby, C. Moser, L. B. Reynolds, E. C. Thomas.

1277

(4) GROGAN, JOHN FRANCIS, 1631 East Lycoming St., Philadelphia, Pa. (Age 23. Born Philadelphia, Pa.) 1928 B. S. in C. E., Drexel Inst. Oct. to Dec. 1925 Chairman, Dept. of City Transit, Philadelphia, Pa. March to May 1926 and Sept. to Dec. 1926 Jun. Draftsman, New Jersey State Highway Dept., drawing and tracing highway construction plans, some map drafting. Summer 1927 Student in Cadet Eng. Training Course, Philadelphia Rapid Transit Co. TT 4: P 4. Refers to H. L. Bowman, S. J. Leonard.

1278

(11) GROSS, CHARLES PHILIP, 725 Central Bldg., Los Angeles, Cal. (Age 39. Born Brooklyn, N. Y.) 1921 M. E., Cornell Univ. (class of 1910). Graduated from West Point (1914) and U. S. Engr. School (1916). TT 4: P 4. Sept. 1914 to date with Corps of Engrs., U. S. Army as follows: Sept. 1914 to Sept. 1915 Company Officer and Company

Commander, 2d Bn. Engrs. at Texas City, troop duty and camp construction; Sept. 1915 to Jan. 1917 student, Engr. School Washington Barracks; Jan. 1917 to May 1918 Company Officer, Company Commander and Battalion Commander, 4th Engrs. and 318th Engrs., troop duty, surveying, preparing troops for war duty; May 1918 to June 1919 Major, Lt. Col. and Colonel, 318th Engrs., 6th Div., in France, war operations of divisional engineers; July 1919 to July 1920 on duty under U. S. Dist. Engr., New London, Conn., in charge of fortification construction, eastern defenses, Long Island Sound, involving emplacement of 16-in. disappearing gun at Ft. Michie; Sept. 1920 to July 1922 in command 13th Engrs., Fort Humphreys, Va., training engineers, railroad construction; July 1922 to Aug. 1926 Senior Instructor of military engineering at West Point; Post Engr. in charge of post water supply, construction of trails, in charge of design and construction of West Point Stadium, map making and reproduction; Aug. 1926 to June 1927 student, Command and General Staff School, U. S. Army, Ft. Leavenworth, Kans.; since July 1927 U. S. Dist. Engr., Los Angeles Dist., in charge of defense works at San Diego and Los Angeles harbors and of improvement of Los Angeles, San Diego and San Luis Obispo harbors, inspected Avalon, McMillan, Elephant Butte, Roosevelt and Laguna Dams. *TT 12.7: SP 1: P 11.7: RC 10.6: D 1.* *TT 16.7: SP 1: P 15.7: RC 10.6: D 1.* Refers to L. H. Beach, R. A. Hill, E. Jadwin, C. T. Leeds, L. R. Lohr, G. B. Pillsbury, R. W. Putnam, H. Taylor.

1279

(6) **GWIN, LEWIS LYNDSDAY**, 325 Morewood Ave., Pittsburgh, Pa. (Age 22. Born Altoona, Pa.) 1928 B. S. in C. E., Pa. State Coll. *TT 4: P 4.* Summer 1922 Rodman with Fay & Gwin, on real-estate development and subdivision. Sept. 1922 to June 1924 (part of time) Rodman, Chainman and Transitman with Smith & Gwin, Chiefly on construction of building swimming pool, etc. for amusement park. Summers 1924 and 1925 Rodman, Chainman and Transitman with City Engr., Altoona, Pa. Summer 1927 Corps Leader, with County Engr., Blair County, Pa., in charge of field party on highway work, preliminary and final surveys on road work. July 1928 to date Jun. Asst. Engr., Morris Knowles, Inc., Pittsburgh, Pa., on consulting, civil and sanitary engineering, appraisals and valuation, design and construction supervision. *TT 0.2: P 0.2.* *TT 4.2: P 4.2.* Refers to H. N. Benkert, M. Knowles, R. O'Donnell, R. L. Sackett, E. S. Taub, E. D. Walker.

1280

(9) **HAMELRATH, WILLIAM ADOLF**, 2344 Rohs St., Cincinnati, Ohio. (Age 23. Born Cincinnati, Ohio.) 1928 C. E., Univ. of Cin. *TT 4: P 4.* Refers to H. B. Luther, H. Schneider.

1281

(1) **HARTMAN, HARRY ROBERT**, 210 Washington Ave., Pleasantville, N. Y. (Age 23. Born Bridgeton, N. J.) 1928 B. S., Univ. of Maine. *TT 4: P 4.* Refers to H. S. Boardman, E. H. Sprague.

1282

(3) **HASELEY, PAUL FRED**, 307 Bryant St., North Tonawanda, N. Y. (Age 29. Born North Tonawanda, N. Y.) Licensed Prof. Engr. and Land Surveyor, New York State. Nov. 1917 to March 1921 with New York Central R. R., successively as Chainman, Rodman and Instrumentman. *TT 1.8: SP 1.8.* April 1921 to April 1926 with New York State Bureau of Highways, on highways and bridges, until April 1924 as Jun. Asst. Engr., Grade 1, on surveys, design, estimates and construction, then Jun. Asst. Engr., Grade 2, in charge of construction, and after Aug. 1924 Asst. Engr. in charge of design, estimates and construction. *TT 3.5: SP 1.5: P 2: RC 1.5: D 0.5.* April 1926 to June 1927 Asst. Engr., Niagara County Highway Dept., in charge of surveys, estimates, design and construction of highways and bridges. *TT 1.2: P 1.2: RC 0.7: D 0.5.* June 1927 to date Res. Engr., City of North Tonawanda, N. Y., in charge of preliminary surveys, design, estimates and construction of sanitary and storm sewers, and sewage pumping stations. *TT 1.1: P 1.1: RC 0.4: D 0.5.* *TT 7.6: SP 3.3: P 4.3: RC 2.6: D 1.5.* Refers to J. T. Campbell, C. A. Ingersoll, J. F. Laboon, J. J. F. Phalan, H. O. Schermerhorn.

1283

(1) **HIGGINS, THOMAS WILLIAM**, 978 Seventy-Eighth St., Brooklyn, N. Y. (Age 40. Born New York City.) July 1907 to Nov. 1912 with City of New York as Rodman, Transitman and Chf. of Party on construction of Catskill Aqueduct. *TT 2.6: P 2.6.* Nov. 1912 to May 1913 Chf. of Party, Bureau of Highways, Queens County, on construction of new streets, sidewalks, bridges, culverts, etc. *TT 0.5: P 0.5.* May 1913 to Aug. 1914 Asst. Engr. with Carpenter, Boxley & Herrick, Contrs., in charge on construction of 4th Ave. subway, Brooklyn, N. Y. *TT 1.3: P 1.3: RC 1.3.* Aug. 1914 to July 1918 Inspector, Public Service Comm., until Oct. 1915 on construction of West Broadway subway, then on construction of subway through Greenwich St., New York City and Nostrand Ave. subway, Brooklyn. *TT 2.6: SP 1.4: P 1.2.* July 1918 to April 1919 Asst. Engr., Newman & Carey Subway Constr. Co.

in charge of construction of Nostrand Ave. subway. TT 0.8: P 0.8: RC 0.8. April 1919 to July 1920 Asst. Engr. and Gen. Supt., Newman & Carey Co. and Necaro Co., in charge of construction of Remsen and Ocean Ave. trunk sewers, Brooklyn. TT 1.3: P 1.3: RC 1.3. July to Oct. 1920 Asst. Engr. and Asst. Supt. for Thomas Dwyer on construction of Snyder Ave. public school, Brooklyn. TT 0.3: P 0.3: RC 0.3. Oct. 1920 to April 1921 Engr., Cement Mfrs. Protective Association, interviewing architects, engineers, contractors and dealers relative to buildings, dams, bridges, highways, industrial plants, etc., and making surveys and reports. TT 0.5: P 0.5. April to Dec. 1921 Sales Engr., Vulcanite Portland Cement Co., in Connecticut and Massachusetts. TT 0.4: SP 0.4. Dec. 1921 to Dec. 1922 in private practice as Engr. and Surveyor, designed and constructed three houses, built  $\frac{1}{2}$  mile of private road with curbs, gutters and drainage. TT 1: P 1: RC 1. Dec. 1922 to date Engr., Technical Dept., Atlas Portland Cement Co., giving technical information and acting in advisory capacity to architects and engineers; work also involves lecturing on methods of construction and design. TT 5.7: P 5.7. TT 17.1: SP 4.6: P 12.6: RC 4.7. Refers to J. A. A. Connelly, J. H. C. Gregg, C. R. Hulsart, J. A. Ruddy, J. F. Sanborn.

1284

(15) HOFF, JOHN EDWARD, Box 1416, Abilene, Tex. (Age 22. Born Comanche, Tex.) 1927 B. S. in C. E., Univ. of Tex. TT 4: P 4. Refers to E. C. H. Bantel, J. A. Focht, A. T. Granger, T. U. Taylor.

1285

(9) HOLCOMB, HARVEY MORRIS, La Grange, Ohio. (Age 23. Born La Grange, Ohio.) 1928 B. S. in C. E., Ohio Northern Univ. TT 4: P 4. Refers to G. H. Elbin, A. R. Webb.

1286

(9) HOLMEN, BERNHARD MEIER, 1276 West 112th St., Cleveland, Ohio. (Age 38. Born Maalselvin, Norway.) 1919 B. S., Ingenieur Akademie, Wismar a/d Ostsee, Germany. 1921 B. S., Dept. of Political Sci. and Statistics, Univ. of Norway. TT 4: P 4. July 1915-April 1916 Asst. to City Engr., Bodo, Norway, Designer on building and harbor structures, Instrumentman and Draftsman on hydro-electric development. TT 0.8: P 0.8: RC 0.4: D 0.2. May to July 1916 Surveyor, Krumns Opmaaling, Oslo, Norway, field work on hydro-electric investigation, Chf. of Party. TT 0.2: P 0.2: RC 0.2. July 1916 to Dec. 1917 Eng. Asst., National Water Power Comm., Oslo, on hydro-electric investigation, about ten months Chf. of field party. TT 1.5: P 1.5: RC 0.8. June-Oct. 1919 Asst. to Mgr., Vamma (Askim, Norway) Water Power Co., field and office work on location of site for water tunnel. TT 0.4: P 0.4: RC 0.4. Nov. 1919-Oct. 1920 Eng. Asst., Amalgamated Power Companies of Glommens, Oslo, on hydro-electric investigation; about four months Chf. of field party. TT 1: P 1: RC 0.3. April 1921 to Aug. 1924 with Oslo Dept. of Streets, as Inspector and Instrumentman on rock excavation, wall construction and street pavement. TT 3.3: P 3.3: RC 0.6. June 1925 to May 1928 Designer and Detailer on steel and masonry bridge structures, until June 1926 with Tennessee Dept. of Highways and Public Works, Nashville, Tenn., then with Chicago & North Western Ry. Co., Chicago. TT 2.9: P 2.9: RC 1.3: D 1.3. May 1928 to date Designer on masonry structures, Cleveland (Ohio) Union Terminal Co. TT 0.8: P 0.3: RC 0.2: D 0.2. TT 14.4: P 14.4: RC 4.2: D 1.7. Refers to H. A. Burr, O. F. Dalstrom, H. Kercher, G. C. Staehle, N. Welden.

1287

(2) HOLMES, EDWARD HENRY, 4 Elm St., Kingston, Mass. (Age 21. Born Kingston, Mass.) 1928 B. S., Mass. Inst. Tech. TT 4: P 4. Refers to J. B. Babcock, 3d, C. M. Spofford.

1288

(3) HSU, CHIEN, 109 Ithaca Rd., Ithaca, N. Y. (Age 23. Born Shiao-shan, Chekiang, China.) 1928 C. E., Cornell Univ. TT 4: P 4. Feb. to June 1928 Chainman, Atmospheric Nitrogen Corporation, Hopewell, Va., on plant construction. TT 0.2: SP 0.2. TT 4.2: SP 0.2: P 4. Refers to F. A. Barnes, E. N. Burrows, F. J. Seery, C. L. Walker.

1289

(10) JEDLICZKA-SNYDER, AUGUST GUSTAV, 14 Wragg St., Charleston, S. C. (Age 47. Born Vienna, Austria.) 1906 C. E., Army Eng. Univ., Vienna, Austria, Lt.-Col. of Eng. Staff, Dept. of War, Austria. TT 4: P 4. 1906 to 1914 Asst. Engr. and Engr., Dept. of Public Works, on state highway projects, design, construction and supervision of highway railroad work, bridges, water-works and barracks. TT 7: SP 1: P 6: RC 4: D 4. 1914 to 1918 Chf. Engr., 7th, 8th and 6th Austrian Army Corps, Eng. Staff. TT 8: P 8: RC 4: D 4. 1918 to 1921 Cons. Engr., on bridges, highway, railway projects and water-power works. TT 4: P 4: RC 4: D 4. 1921 to 1924 Asst. to Chf., Dept. of Constr., Dutch Govt. R. R. Dept., Batavia, Dutch East Indies. TT 8: P 8: RC 3: D 3. 1924 to 1925 traveling, studying engineering work and (short periods) on harbor work. TT 0.5: P 0.5. 1925 to 1926 (short periods) in consulting engineering offices, structural drafting and designing on theatre

and office buildings and apartment houses. 1926 to 1928 with Waddell & Hardesty, New York City, as Inspector on bridge work, Asst. to Res. Engr. and Design-Checker in office. TT 1.9: P 1.9: RC 1.2: D 0.7. TT 28.4: SP 1: P 27.4: RC 16.2: D 15.7. Refers to C. K. Allen, F. DeSchauensee, S. Hardesty, H. F. Nelson, J. A. L. Waddell.

1290

(7) JOHNSON, NORVAL CHARLES, 1324 Twenty-Seventh St., Milwaukee, Wis. (Age 22. Born St. Francis, Wis.) 1928 C. E., Marquette Univ. TT 4: P 4. July 1928 to date Jun. Engr., Milwaukee County, Regional Planning Dept., computations, drafting, etc. TT 0.1: SP 0.1. Refers to A. E. Holcomb, E. D. Roberts, K. H. Talbot.

1291

(4) JONES, RALPH WESLEY, 416 East Mt. Airy Ave., Philadelphia, Pa. (Age 31. Born Philadelphia, Pa.) Sept. 1915 to May 1917 Rodman and Draftsman, Reading Co., Philadelphia, Pa.; surveys, computations, etc. TT 0.8: SP 0.8. May 1917 to April 1918 Asst. Supt. and Timekeeper, Geo. F. Pawling Co., Philadelphia, on shipyard construction at Wilmington, Del. TT 0.5: SP 0.5. April to Sept. 1918 with Ford, Bacon & Davis of New York City, in charge of survey of bridges for valuation of Pittsburgh Rys. TT 0.4: P 0.4. Sept. 1918 to June 1919 Engr. and Gen. Asst., Delaware River Dredging & Constr. Co., Philadelphia, handled purchasing, surveying, engineering, drafting, some accounting. TT 0.3: SP 0.3. June to July 1919 Quantity Surveyor of buildings, American International Shipbuilding Co.'s plant at Hog Island, Philadelphia, and July to Sept. 1919 Asst. to man in charge of inventory and sales of plant material, etc., by U. S. Shipping Board. TT 0.3: SP 0.1: P 0.2. Sept. 1919 to May 1920 Quantity Surveyor, until Oct. 1919 of buildings of Philadelphia Rapid Transit Co., Eng. Dept., Oct. to Nov. 1919 of Lit Bros. Dept. Store for Simon & Simon, Philadelphia. Nov. 1919 to Feb. 1920 buildings for Mfrs. Appraisal Co., Philadelphia (also Fricer), and after Feb. 1920 of buildings for American Appraisal Co., Milwaukee, Wis. TT 0.7: SP 0.7. June 1920 to date Estimator, U. G. I. Contr. Co., Philadelphia, on buildings, bridges, dams, steam and hydro-electric power plants, electric substations, etc. TT 6.3: SP 2: P 4.3. TT 9.2: SP 3.8: P 5.4: RC 5. Refers to R. L. Faithorn, L. R. Ferguson, F. S. Harvey, P. L. Heslop, J. D. Justin, F. E. Lamphere, H. W. Latta, J. P. Laws, J. H. Terry, L. A. Whitsit.

1292

(9) JUNG, WERNER FRED, 10523 Hathaway Ave., Cleveland, Ohio. (Age 28. Born Cleveland, Ohio.) 1928 B. C. E., Ohio State Univ. TT 4: P 4. March 1916 to Feb. 1918 and July 1919 to Aug. 1921 Draftsman (Mech.), National Acme Co., Cleveland, Ohio, acting as Tracer, Detailer and Designer of machinery, tools and fixtures, and (after July 1919) in charge of design of tools, fixtures, and jigs for automatic machinery. TT 2: SP 2. Feb. to Oct. 1918 Detailer (structural steel), Wellman Seaver Morgan Co., Cleveland. TT 0.4: SP 0.4. Oct. 1918 to March 1919 Machinist, Peerless Motor Car Co., Cleveland, making parts for repair of old model cars. TT 0.2: SP 0.2. March to July 1919 Draftsman (Patent), Standard Parts Co., Cleveland, on drawings for U. S. Patent Office, principally automobile accessories. TT 0.1: SP 0.1. June 1925 to Sept. 1927 and June 1928 to date with Cuyahoga County, Ohio, until Sept. 1927 as Draftsman on road location, estimating cost of improvements, etc., and since June 1928 Asst. County Highway Engr., being Chf. of Party on field location. TT 0.3: P 0.3: RC 0.3. TT 7: SP 2.7: P 4.3: RC 0.3. Refers to C. T. Morris, J. R. Shank.

1293

(8) KLUGE, RALPH WENDEL, 4728 Virginia Ave., Chicago, Ill. (Age 22. Born Chicago, Ill.) 1928 B. S., Univ. of Ill. TT 4: P 4. Refers to H. E. Babbitt, H. Cross, J. J. Doland, W. C. Huntington, T. C. Shedd, L. K. Whitcomb, Jr.

1294

(10) LIGON, WISTER HENRY, 491 East Ontario Ave., Atlanta, Ga. (Age 20. Born Atlanta, Ga.) 1928 B. S. in C. E., Ga. School Tech. TT 4: P 4. June to Aug. 1928 Design Mix Inspector, Tennessee State Highway Dept., Jackson, Tenn. TT 0.1: SP 0.1. Aug. 1928 to date Levee Inspector, Mississippi River Comm., U. S. Govt. TT 0.1: SP 0.1. TT 4.2: SP 0.2: P 4. Refers to R. P. Black, R. S. Fliske, W. A. Hansell, J. E. Moreland, F. C. Snow.

1295

(1) LUSH, WILLIAM HENRY, Phillip St., Sydney, N. S. W., Australia. (Age 31. Born Maidstone, Kent, England.) 1919 B. E., Sydney Univ. TT 4: P 4. Dec. 1918 to Nov. 1920 Demonstrator, Dept. of Civ. Eng., Univ. of Sydney, teaching drawing and design; in charge of testing materials; investigations on strength of materials. TT 2: P 2. Dec. 1920 to May 1921 Draftsman, Metropolitan Ry. Constr. Drawing Office, on design and drawing of steel and reinforced concrete structures. TT 0.5: P 0.5: D 0.5. June 1921 to 1927 Draftsman, and 1927 to date Designing Engr., since 1923, in charge of Sydney Harbor Bridge Drawing Office, responsible to Chf. Engr., Sydney Harbor Bridge & Metropolitan Ry. Construction,

for design, estimates, quantities, specifications and construction drawings of Sydney Harbor Bridge approaches (total estimated cost £1 500 000). TT 7.1: P 7.1: RC 5.1: D 5.1. TT 13.6: P 13.6: RC 5.1: D 5.6. Refers to C. F. Blain, W. A. Miller, T. B. Nicol, H. M. Sherrard. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

1296

(1) LYNCH, JOHN PESCU, 414 Riverside Drive, New York City. (Age 23. Born Raleigh, N. C.) 1928 B. S. in Civ. Eng., Univ. of N. C. TT 4: P 4. Refers to G. M. Braune, T. F. Hickerson, H. F. Janda.

1297

(10) MacELWEE, ROY SAMUEL, 62 Montague St., Charleston, S. C. (Age 45. Born Parkville, Mich.) 1907 B. S. Ind. Chemistry, Columbia Univ. 1916 Ph. D. Economics, Univ. of Berlin, Germany. TT 2: P 2. 2 years Student, Bldg. Constr., Royal Technische and Hochschule, Charlottenburg, Berlin. 1908 to 1912 with International Harvester Co., Berlin, Germany, Branch Mgr., Magdeburg, Germany. TT 1.5: SP 1.5. 1912 to 1914 with Otis Elevator Co., Berlin, as Sales Mgr., Branch Mgr., Hamburg, on large installations, Continental Rubber Co., Hanover Bussing, Braunschweig-Baienkorf, Amsterdam and Port of Hamburg. TT 2: P 2: RC 2: D 1. 1914 to 1916 student, Univ. of Berlin and U. S. Consulate General, Berlin, Germany. 1916 to 1918 Lecturer, Columbia Univ., New York City, design and operation of ports. TT 2: P 2. 1918 1st Lieut., Corps of Engrs., U. S. Army, devised movement by march and water via Alpine, from Camp Merritt to Hoboken. TT 1: P 1. 1919 to 1921 2d Asst., 1st Asst. and Director, U. S. Bureau of Foreign and Domestic Commerce, Washington. TT 2.5: P 2.5: RC 2.5. 1920 Vice-Chairman, U. S. Mission for Decongestion of Port of Havana, Cuba. TT 1: P 1: RC 1. 1921 to 1923 Dean, School of Foreign Service, Washington, D. C. (Georgetown Univ.), lectured on ports and terminal facilities. TT 2: P 2: RC 2. 1923 to date Commr. of Port Development, Charleston, S. C.; consulting work for fixed bridges for Chicago, Ports of Baton Rouge, La., Toledo and Cleveland, Ohio, and Turiamo, Venezuela, passenger pier for Miami Beach; 1926 U. S. Delegate to International Navigation Congress, Cairo, Egypt. TT 5: P 5: RC 5. TT 19: SP 1.5: P 17.5: RC 12.5: D 1. Refers to E. Jadwin, L. R. Lohr, J. Meigs, G. F. Nicholson, W. L. Saunders, F. L. Stuart, H. C. Willcox.

1298

(6) MacGOUGH, MYLES CHESTER, 5523 Claybourne St., Pittsburgh, Pa. (Age 23. Born Brooklyn, N. Y.) 1928 B. S. in C. E., Univ. of Pittsburgh. TT 4: P 4. June 1928 to date Jun. Asst., Dept. City Transit, Pittsburgh, Pa., field work, surveys for proposed subway. TT 0.1: SP 0.1. TT 4.1: SP 0.1: P 4. Refers to J. S. Lambie, L. C. McCandliss, L. W. McIntyre.

1299

(11) McBIRNEY, HARRY RAY, 1020 Garfield St., Denver, Colo. (Age 44. Born Conrad, Iowa.) 3½ years student in Civ. Eng., Iowa State Coll. TT 1.5: P 1.5. Prior to Oct. 1907 (1 year) on miscellaneous surveys. Oct.-Dec. 1907 and July-Dec. 1908 Draftsman, with U. S. Surveyor General, Boise, Idaho, drafting and computations on surveys. TT 0.4: SP 0.4. Jan. 1909 to date (except June to Nov. 1920 Designer for A. J. Wiley, Cons. Engr., Boise, Idaho, on Don Pedro Dam for Turlock and Modesta Irrigation Districts) with U. S. Bureau of Reclamation, engaged as follows: Jan. 1909 to June 1913 Draftsman, on designs, surveys, etc., also acting as Computer; June 1913 to June 1917 Designing Engr., at Boise, in charge of project designing for canal, lateral and drainage system; June 1917 to June 1920 Office Engr. and Acting Project Mgr., at King Hill, Idaho, being in charge (in absence of Project Mgr.) of office and of project engineering and construction. Nov. 1920 to Jan. 1927 Engr., until March 1924 in Denver Office, in charge of standardization of designs for canal, lateral and drainage structures, including manufacturing and handling equipment, then responsible for specifications for construction work and purchase of engineering materials and equipment; since Jan. 1927 Civ. Engr., Eng. Sec., Denver Office, in charge of design of canal and lateral structures and dams for distribution and drainage systems. TT 17.8: SP 1.7: P 16.1: RC 14.7: D 11.3. TT 19.7: SP 2.1: P 17.6: RC 14.7: D 10.3. Refers to C. C. Fisher, F. W. Hanna, J. Hinds, I. E. Houk, C. H. Paul, J. L. Savage, A. J. Wiley.

1300

(15) McCULLOUGH, PHILLIP MORGAN, Av. Tlaxcala 203, Mexico City, D. F., Mexico. (Age 34. Born Omaha, Nebr.) 1916 B. S. in E. E., Univ. of Nebr. TT 4: P 4. June 1908 to July 1917 (from 1911 to 1916 while student) on construction, maintenance, appraisal and transmission engineering for Nebraska and Iowa Telephone Cos., Northwestern Exchange Co., and Lincoln Telephone & Telegraph Co. TT 2.5: SP 1.5: P 1: RC 1: D 1. July 1917 to June 1919 with Signal Corps, U. S. Army, as First Lieut. and finally Capt., 6 months training troops in United States, and 1½ years in France constructing, operating and maintaining lines of communication. TT 1.5: SP 0.5: P 1: RC 1. June 1919 to Feb. 1926 with

Northwestern Bell Telephone Co., until Feb. 1920 as Asst. Constr. Engr., then Constr. Engr., and after July 1923 Div. Plant Engr., in charge of study and planning of outside plant construction standards, including design of tools and all construction not covered by standard specifications, involving bridge fixtures, all-span construction, underground and submarine cable design and construction; after July 1923 in responsible charge of plant engineering and construction (approx. \$2 000 000 annually). TT 6.7: P 6.7: RC 3.7: D 1. Feb. 1926 to date with Mexican Telephone & Telegraph Co., subsidiary of International Telephone & Telegraph Corporation, New York City, until Feb. 1927 as Chf. Engr. in charge of design and construction of entire plant in Mexico, then Asst. Vice-Pres. and Chf. Engr. in charge of operations in Mexico, and since Feb. 1928 Executive Vice-Pres. and Chf. Engr. TT 2.6: P 2.6: RC 2.6. TT 17.3: SP 2: P 15.3: RC 8.3: D 2. Refers to G. D. Camp, G. R. G. Conway, H. S. Jacoby, C. L. Meyer, J. M. Thompson, Jr.

## 1301

(13) **McFARLAND, ROBERT CHESTER**, 743 Rodney Drive, San Leandro, Cal. (Age 41. Born Worcester, Mass.) 1906 graduate, Van der Nallien Coll., San Francisco, Cal. 1906 to 1910 successively as Chainman, City of Oakland, Cal. Levelman, Nevada Northern R. R. Co. and Nevada Consolidated Copper Co. and Transitman, Northwestern Pacific R. R. Co. and Great Western Power Co., Oakland, Cal. TT 2.3: SP 2.3. 1910 Chf. of Party, Beverly Glenn Land Co., Los Angeles, Cal., in charge of surveys. TT 0.9: P 0.9: RC 0.9. 1910 to 1912 Res. Engr., Hanford-Summit Lake R. R. Co., Hanford, Cal., in charge of construction of grade and structures. TT 2: P 2: RC 2: D 2. 1912 to 1913 Res. Engr., Sacramento Valley Irrigation Co., Willows, Cal., in charge of preliminary surveys. TT 1: P 1: RC 1. 1913 to 1916 Res. Engr., San Joaquin (Cal.) Valley Farms Land Co., in charge of construction of irrigation and reclamation district (72 000 acres). TT 3: P 3: RC 3: D 3. 1920 to 1921 Inspector on highway construction, with County Engr., Visalia, Cal. TT 0.4: SP 0.4. 1921-1927 Chf. Engr. and Mgr., Tranquillity Irrigation Dist., in charge of construction and operation. TT 6: P 6: RC 6: D 6. TT 15.6: SP 2.7: P 12.9: RC 12.9: D 11. Refers to J. E. Bowersmith, W. H. Code, M. W. Enderlein, H. L. Haehl, J. H. Quinton.

## 1302

(4) **MAHEDY, FRANCIS STANLEY**, 114 Summit Ave., Bywood, Pa. (Age 24. Born Philadelphia, Pa.) 1928 B. S. in Civ. Eng., Univ. of Pa. TT 4: P 4. April 1922 to Sept. 1924 Rodman and Transitman, Franklin & Co., Civ. Engrs., Philadelphia, Pa. TT 1.2: SP 1.2. June 1928 to date Jun. Engr., Joint Comm. for Elimination of Toll Bridges over Delaware, detailing and drafting. TT 0.1: SP 0.1. TT 5.3: SP 1.3: P 4. Refers to H. C. Berry, W. H. Chorlton, B. Franklin, E. T. Grandlienard, A. R. Lindsey, W. S. Pardoe, F. P. Witmer.

## 1303

(1) **MARCROFT, JOHN CLIFFORD**, U. S. Naval Station, Guantanamo Bay, Cuba. (Age 24. Born St. Paul, Minn.) 1927 B. S., Univ. of Minn. TT 4: P 4. July 1927 to date Jun. Civ. Engr., U. S. Navy, U. S. Naval Station, Guantanamo Bay, Cuba. TT 0.6: SP 0.6. TT 4.6: SP 0.6: P 4. Refers to F. Bass, G. R. Brooks, A. S. Cutler.

## 1304

(8) **MARINO, CARLOS HEDDERICH**, 700 South English Ave., Springfield, Ill. (Age 24. born Columbus, Ohio.) 1928 B. S. C. E., Purdue Univ. TT 4: P 4. June 1928 to date Jun. Highway Engr., Illinois State Dept. of Public Works and Bldgs., on computation and drafting. TT 0.1: SP 0.1. TT 4.1: SP 0.1: P 4. Refers to E. L. Erikson, W. K. Hatt, R. B. Wiley.

## 1305

(13) **MARTINEZ, ADRIAN ANTONIO**, 2195 Sacramento St., San Francisco, Cal. (Age 31. Born in Guatemala.) 1917 Associate, City and Guilds Inst. and B. Sc. (Eng.), Univ. of London, England. TT 4: P 4. Aug. 1917 to July 1919 and Jan. 1920 to June 1921 Designing Engr., until July 1919 with Considero Constr. Co., Ltd., London, England, on bridges, wharves, power and warehouses, etc., from Jan. to Aug. 1920 with C. H. Snyder, San Francisco, Cal., on commercial buildings, schools, etc. and after Aug. 1920 with Pacific Fruit Express Co., San Francisco, in charge of structural design for ice plants. TT 3.2: SP 0.2: P 3: RC 2.5: D 2.5. June 1921 to Aug. 1922 with McGillivray Constr. Co., Sacramento, Cal., designing packing plants, warehouses and bunkers, estimating, supervising outside construction. TT 1.2: P 1.2: RC 1.2: D 1.2. Aug. 1922 to date with George Wagner, San Francisco, in charge of all engineering and technical activities, including field, work and estimating; has designed and erected warehouses, power plants, loft buildings, machine shops, etc., and has supervised construction of office buildings, schools, etc. TT 6: P 6: RC 6: D 6. TT 14.4: SP 0.2: P 14.2: RC 9.7: D 9.7. Refers to H. J. Brunnier, T. P. Dresser, Jr., T. B. Hunter, V. S. Persons, C. H. Snyder, E. L. Soule.

1306

- (1) **MASLINE, JOHN RANDOLPH**, 2305 Sedgwick Ave., Bronx, New York City. (Age 25. Born Greenwich, Conn.) 1924 B. S. in C. E., N. Y. Univ. TT 4: P 4. July to Dec. 1924 Inspector, Pennsylvania State Highway Dept., on pavement, bridges, grade and culverts. TT 0.5: P 0.5: RC 0.3: D 0.1. Dec. 1924 to May 1925 Jun. Engr., Board of Transportation, New York City, on survey of underground structures in connection with subway. TT 0.5: P 0.5: RC 0.2. May to Nov. 1925 Chf. of Party, Empire Gas & Fuel Co., on topographical survey of Company's holdings. TT 0.5: P 0.5: RC 0.5. Nov. 1925 to Feb. 1926 Computer with Cowan, Dempsey & Dengler, statistical research. TT 0.2: SP 0.2. April 1926 to July 1928 Draftsman with Gibbs & Hill, on layouts, design of small catenary structures, etc., in connection with electrification of railroad. TT 2.3: P 2.3: RC 0.5: D 2.3. July 1928 to date Engr., Daniels Realty Organization, in charge on grading. TT 0.1: P 0.1: RC 0.1. TT 8.1: SP 0.2: P 7.9: RC 1.6: D 2.4. Refers to F. E. Ferris, A. Haring, E. G. Hooper, C. T. Schwarze, C. H. Snow.

1307

- (12) **MASON, MORRIS**, South Cle Elum, Wash. (Age 25. Born Benton, Ill.) 1927 B. C. E., Univ. of Ark. TT 4: P 4. June to Sept. 1927 Chainman and Sept. 1927 to June 1928 Rodman, Kansas City Southern Ry. TT 0.5: SP 0.5. July 1928 to date Jun. Engr., U. S. Bureau of Reclamation. TT 0.1: SP 0.1. TT 4.6: SP 0.6: P 4. Refers to V. W. Russell, W. R. Spencer.

1308

- (6) **MEERMANS, LEONARD HENRY**, 4 Buffalo St., Oakland Station, Pittsburgh, Pa. (Age 20. Born Washington, Pa.) 1928 B. S. in C. E., Univ. of Pittsburgh. TT 4: P 4. Refers to J. S. Lambie, L. C. McCandliss, L. W. McIntyre, J. H. Smith.

1309

- (1) **MERCER, LESLIE BOYD**, Cheadle Heath, Manchester, England. (Age 26. Born Melbourne, Victoria, Australia.) 1925 B. C. E., Melbourne Univ., Australia. TT 4: P 4. June 1924 to Feb. 1926 with Australian Cement Ltd., Geelong, Australia, as Surveyor setting line and level for new factory and Designer in reinforced concrete. TT 1.7: P 1.7: D 0.7. Feb. 1926 to July 1927 Branch Mgr., S. Haunstrup & Co., Ltd., Sydney, Australia, on reinforced concrete construction, in charge of construction of 600 000-bu. wheat elevator. TT 1.4: P 1.4: RC 1.4. Sept. 1927 to May 1928 Detail Designer and Estimator, Jones-Hettelsater Constr. Co., Kansas City, Mo., on concrete wheat elevators. TT 0.7: P 0.7. June 1928 to date Structural Engr., Henry Simon Ltd., Cheadle Heath, Manchester, England, designing 3 000 000-bu. wheat elevator. TT 0.3: P 0.3. TT 8.1: P 8.1: RC 1.4: D 0.7. Refers to J. H. Butters, C. S. Harper, C. W. N. Sexton, H. M. Sherrard, T. H. Upton.

1310

- (6) **MIHAYL, VICTOR BASIL**, 216 Colart Ave., Pittsburgh, Pa. (Age 28. Born Petrograd, Russia.) 1928 B. S. in Civ. Eng., Univ. of Pittsburgh. TT 4: P 4. April to Oct. 1918 Rodman and Chainman, 3d Surveying Div., Volga River, development of irrigation system. TT 0.2: SP 0.2. TT 4.2: SP 0.2: P 4. Refers to J. S. Lambie, L. C. McCandliss, L. W. McIntyre.

1311

- (1) **MUNCH, GEORGE DEL**, Care, Eng. Dept., United Fruit Co., Puerto Barrios, Guatemala. (Age 28. Born St. Joseph, Mo.) 1922 B. S. in C. E., Univ. of Kans. TT 4: P 4. June to Nov. 1922 Rodman, Missouri Pacific Ry. Co. TT 0.2: SP 0.2. Nov. 1922 to April 1923 Draftsman and Timekeeper on steel construction, Chicago Bridge & Iron Works, Chicago, Ill. TT 0.2: SP 0.2. April 1923 to Oct. 1924 Rodman, Draftsman and Chf. of Party, System Field Party, Chicago Great Western Ry. Co., Chicago. TT 1.3: SP 0.2: P 1.1: RC 0.6. Oct. 1924 to date Instrumentman, Party Chf. and Asst. Div. Engr., United Fruit Co., Guatemala Div. TT 3.8: P 3.8: RC 2.9. TT 9.5: SP 0.6: P 8.9: RC 3.5. Refers to A. R. Kennedy, W. C. Mcrown, H. B. Pettit, H. A. Rice, S. F. Shaw, C. C. Williams.

1312

- (6) **O'FARRELL, JOHN JOSEPH**, 209 Waitman St., Morgantown, W. Va. (Age 20. Born White Sulphur Springs, W. Va.) 1928 B. S. C. E., W. Va. Univ. TT 4: P 4. Refers to L. V. Carpenter, R. P. Davis.

1313

- (10) **OGRAM, ARTHUR VAUGHN**, U. S. Q. B. 1308, Fitler, Miss. (Age 22. Born Jacksonville, Fla.) 1928 B. S. of C. E., Ga. School Tech. TT 4: P 4. Aug. 1928 to date Inspector (survey), Mississippi River Comm., 3d Dist. TT 0.1: P 0.1. TT 4.1: P 4.1. Refers to R. P. Black, R. S. Fiske, W. A. Hansell, J. H. Johnston, F. C. Snow.

1314

- (14) OOTHOUT, RAYMOND MILTON, Box 641, Hot Springs, Ark. (Age 22. Born New Bedford, Mass.) 1928 B. S. of C. E., Harvard Univ. TT 4: P 4. July 1928 to date Cashier, Engr. and Timekeeper, Koss Constr. Co. of Des Moines, Iowa, on construction of reinforced concrete arched span bridge across Ouchita River near Hot Springs, Ark. TT 0.1: SP 0.1. TT 4.1: SP 0.1: P 4. Refers to G. M. Fair, H. J. Hughes, L. J. Johnson, G. W. Koss, G. F. Swain, H. M. Turner.

1315

- (11) OUDERMEULEN, HENRY JOHN, Power Plant No. 1, Saugus, Cal. (Age 26. Born Holland, Mich.) 1927 B. S., Univ. of So. Cal. TT 4: P 4. Refers to A. R. Arledge, R. E. Ballinger, R. M. Fox, H. E. Hedger.

1316

- (3) PALM, HARRY WENDEL, 575 Washington Ave., Albany, N. Y. (Age 20. Born Bethlehem, Pa.) 1928 C. E., Lehigh Univ. TT 4: P 4. Summer 1927 Inspector on sewer construction, with Alexander Potter, New York City. Aug. 1928 Jun. Engr., Water Resources Branch, U. S. Geological Survey. TT 0.1: SP 0.1. TT 4.1: SP 0.1: P 4. Refers to S. A. Becker, R. J. Fogg, M. O. Fuller, A. W. Harrington, H. G. Payrow, W. L. Wilson.

1317

- (1) PALMER, WILLIAM ROY, 33 West Forty-Second St., New York City. (Age 43. Born Fairbury, Nebr.) Licensed Prof. Engr. and Land Surveyor, New York State. 1906 B. Sc. E. E., Univ. of Nebr. TT 4: P 4. Two summers on hydro-electric and civil engineering projects. 1906 to 1907 with Eng. Dept., Gen. Elec. Co., Schenectady, N. Y. TT 0.5: SP 0.5: RC 0.2. 1907 to 1908 on railroad and irrigation works, title surveys, design of steel, concrete and timber structures in Colorado and California. TT 1.8: SP 0.2: P 1.5: RC 1.5: D 1.5. 1909 to 1911 Asst. Engr., Grand River, Meeker & Salt Lake R. R. in Colorado and Utah. TT 2: P 2: RC 2: D 2. 1911 to 1913 Surveyor, Div. Supt., Asst. Engr. and Chf. Constr. Engr., H. M. Bylesby Co., Chicago, Ill., on hydro-electric, steam electric, city and interurban railway projects in Colorado and Tennessee. TT 1.7: SP 0.2: P 1.5: RC 1.5: D 1.5. 1913 to 1917 Asst. Chf. Engr., United Verde Copper Co., Clarkdale, Ariz., and subsidiary companies, supervising design and construction of steam and electric railways; road, street, sewer, water, heating, ventilating, refrigeration and refuse disposal systems; power plants; mine, mill and smelter structures; residences, business blocks, hotels, hospitals, school and church buildings. TT 4: P 4: RC 4: D 4. 1917 to 1919 Cons. Engr. in Arizona, Texas, California and Mexico on design and construction of civil, electrical, mechanical and mining engineering projects. TT 2: P 2: RC 2: D 2. 1919 to 1923 Chf. Engr., Columbia Graphophone Mfg. Co. and subsidiary companies in United States, Canada and Europe; supervision of design, construction and operation of plants and processes. TT 4: P 4: RC 4: D 4. 1923 to 1925 Gen. Mgr. and Chf. Engr., A. S. Nichols Co., New York, Heating, Drying and Ventilating Engrs. TT 2: P 2: RC 2: D 1. 1925 to date Cons. Engr., New York City and Pt. Washington, N. Y. TT 2.5: P 2.5: RC 2.5: D 2.5. TT 24.5: SP 1: P 23.5: RC 19.7: D 18.5. Refers to E. G. Carey, W. H. Gahagan, M. A. Long, E. J. Moore, J. H. H. Muirhead, T. C. Roberts.

1318

- (12) PAYTON, CURTIS CHARLES, 1287 Chemeketa St., Salem, Ore. (Age 22. Born Ferndale, Cal.) 1928 A. B. in Civ. Eng., Stanford Univ. Summer 1923 drafting and surveying at Ferndale, Cal. Summer 1924 on road contracting at Ferndale giving grade, acting as Timekeeper and Bookkeeper. TT 4: P 4. Refers to C. Moser, L. B. Reynolds, E. C. Thomas.

1319

- (1) PERRAULT, ROLAND CLARENCE, 520 West 124th St., New York City. (Age 22. Born Worcester, Mass.) 1928 B. S. in C. E., Norwich Univ. TT 4: P 4. June 1928 to date Jun. Engr., Port of New York Authority, on field work. TT 0.1: SP 0.1. TT 4.1: SP 0.1: P 4. Refers to M. B. Case, R. Hoppen, Jr., A. E. Winslow.

1320

- (1) PHELPS, ZIBA BENNETT, Jr., Summit, N. J. (Age 22. Born Binghamton, N. Y.) 1928 B. S. in C. E., Sheffield Sci. School. July 1928 to date with American Constr. & Securities Co., on construction of diverting reservoir for Commonwealth Water Co. at Summit, N. J. TT 4: P 4. Refers to C. T. Bishop, P. G. Laurson, J. C. Tracy.

1321

- (13) QUAN, YEECHOW, 2610 Dwight Way, Berkeley, Cal. (Age 24. Born Canton, China.) 1928 B. S. in C. E., Univ. of Cal. TT 4: P 4. Refers to R. E. Davis, C. Derleth, Jr., F. S. Foote, B. Jameyson, G. E. Troxell.

1322

(2) **RAGAINI, FRANK**, 39 Lester St., West Haven, Conn. (Age 23. Born Youngstown, Ohio.) 1928 B. S., Sheffield Sci. School. TT 4: P 4. June 1928 to date Transitman and Draftsman for A. B. Hill, New Haven, Conn. TT 0.2: SP 0.2. TT 4.2: SP 0.2: P 4. Refers to C. T. Bishop, C. M. Blair, R. S. Kirby.

1323

(4) **RAMEY, GRANVILLE MARSHALL**, 2 South Clinton Ave., Trenton, N. J. (Age 22. Born Philadelphia, Pa.) 1928 B. S. in C. E., Univ. of Pa. TT 4: P 4. June 1928 to date Jun. Engr., Joint Bridge Comm. of Pennsylvania and New Jersey. TT 0.2: SP 0.2. TT 4.2: SP 0.2: P 4. Refers to W. H. Chorlton, E. T. Grandienard.

1324

(3) **REID, WILLIAM S.** Box No. 235, Bolton Landing, N. Y. (Age 22. Born Augusta, Me.) 1928 B. S. in Civ. Eng., Univ. of Me. TT 4: P 4. Summers 1924, 1926 and 1927 with L. N. Edwards, Augusta, Me., as Engr.'s Asst., on reports, etc. (1924), Timekeeper making out payroll and reports on bridge construction (1926) and Inspector (Constr.) acting as Res. Engr. on two small concrete bridges, all estimates and control of materials (1927). June 1928 to date Inspector (San.), Lake George Association, inspection and recommendation regarding sewage disposal. TT 0.3: P 0.3. TT 4.3: P 4.3. Refers to H. S. Boardman, L. N. Edwards, H. F. Hill, Jr., E. H. Sprague.

1325

(11) **RITER, JOHN RANDOLPH**, 1441 Welton St., Denver, Colo. (Age 23. Born Logan, Utah.) 1926 and 1928 B. S., Agr. Coll. of Utah. TT 4: P 4. Summer 1925 Rodman, U. S. Bureau of Public Roads. Summer 1926 Recorder, American Smelting & Refining Co., Salt Lake City, Utah. June to Sept. 1927 Soil Surveyor, Sevier Bridge Reservoir Co. and (after Aug. 1927) State of Utah. TT 0.2: SP 0.2. Oct. 1927 to April 1928 Jun. Mathematician, U. S. Coast and Geodetic Survey, on computation of levels. TT 0.3: SP 0.3. April 1928 to date Jun. Engr., U. S. Bureau of Reclamation, office work on investigations of water supply. TT 0.2: SP 0.2. TT 4.7: SP 0.7: P 4. Refers to E. B. Debler, O. W. Israelsen, L. M. Winsor.

1326

(13) **ROBERTS, JOHN DONALD**, 738 South Second St., San Jose, Cal. (Age 23. Born San Jose, Cal.) 1928 A. B. in Civ. Eng., Stanford Univ. TT 4: P 4. Refers to J. C. L. Fish, C. Moser, L. B. Reynolds, E. C. Thomas, C. B. Wing.

1327

(5) **ROLLER, JOHN EDWIN**, Birds Nest, Va. (Age 36. Born Harrisonburg, Va.) Registered Engr., State Fla. 1909-1911 student, Va. Mil. Inst. TT 0.5: P 0.5. Oct. 1911 to Jan. 1912 Rodman, Durham & South Carolina R. R. TT 0.2: SP 0.2. Jan. to Sept. 1912 Chainman, Raleigh, Charlotte & Southern Ry. TT 0.3: SP 0.3. Sept. to Oct. 1912 Rodman, and Oct. 1912 to May 1914 Instrumentman, Louisville & Nashville Ry. TT 0.8: SP 0.8. May 1914 to May 1915 Topographer, Transitman and Leveler, June to Sept. 1915 Chf. of Party collecting field data for valuation maps, and Sept. 1915 to Feb. 1917, March to Aug. 1918 and Jan. to May 1919 Asst. Engr., M. of W. Dept., all for Nashville, Chattanooga & St. Louis Ry. TT 2.9: SP 0.7: P 2.2. Aug. 1918 to Jan. 1919 with U. S. Army. July 1919 to Nov. 1920 Res. Engr., North Carolina State Road Dept., on location and construction in mountains. TT 1.3: P 1.3: RC 1.3. Nov. 1920 to July 1923 Res. Engr., Virginia Highway Dept., in charge of large bridge project, 30 miles grading, small span bridges and 15 miles of concrete paving. TT 2.7: P 2.7: RC 2.7. July 1925 to Aug. 1926 member of firm, Roller & Moore, Miami, Fla., on subdivision layouts and developments, including streets, sidewalks, etc. TT 1: P 1: RC 1. Aug. 1926 to Aug. 1928 Res. Engr. Florida Highway Dept., in charge of 20 miles grading, bridges, etc., 9 miles of concrete and 11 miles of sheet asphalt pavement. TT 2: P 2: RC 2. TT 11.7: SP 2: P 9.7: RC 7.1. Refers to H. T. Ammerman, A. H. Bell, J. C. Carpenter, M. B. Garris, B. P. McWhorter.

1328

(7) **ROSE, CHARLES PETER**, 2263 White St., Dubuque, Iowa. (Age 25. Born Chicago, Ill.) 1926 A. B., Columbia Coll., Dubuque, Iowa. 1928 B. S. in C. E., Iowa State Coll. Summer 1927 Bridge Inspector, Iowa State Highway Comm., Ames, Iowa. March to June 1928 Research Asst., Dept. of San. Eng., Iowa State Coll., research in municipal water softening. TT 4: P 4. Refers to T. R. Agg, A. H. Fuller, H. N. Jenks.

1329

(8) **ROSS, ELLIS GEORGE, Jr.**, 410 West Oak St., Carbondale, Ill. (Age 25. Born D'Lo Miss.) 1928 B. S. in C. E., Miss. Agric. & Mech. Coll. TT 4: P 4. June 1928 to date Rodman, Instrumentman and Draftsman, Illinois State Highway Dept. TT 0.1: SP 0.1. TT 4.1: SP 0.1: P 4. Refers to C. R. Dooling, T. G. Gladney.

## FOR ADMISSION

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1330

- (1) RUSH, JOHN JAMES, 732 Columbus Ave., New York City. (Age 22. Born New York City.) 1928 B. S. in C. E., Manhattan Coll. TT 4: P 4. Refers to W. H. Burr, J. J. Costa.

1331

- (1) ST. JOHN-RUSSEL-DE LYS-GREGSON, HARRY, The Chartered Bank, Singapore, Straits Settlement. (Age 31. Born Londonderry, Ireland.) 1914 Graduated, Oxford Univ., Trinity term, 1914 to 1922 commissioned in Royal Engrs., in active service in France, Gallipoli, Egypt, Persia and North Western Frontier, India, resigned as Capt. TT 6.8: SP 2: P 4.8: RC 4.8: D 1.7. 1923 to 1924 in private practice in India. TT 2: P 2: RC 1.4: D 0.6. 1925 Asst. Engr., Metropolitan Water Board, London, England. TT 0.6: P 0.6: D 0.6. 1925 to 1926 Chf. Asst. to H. J. Deane, Cons. Engr., London. TT 1: P 1: D 1. 1926 to date Asst. Res. Engr., Water Supply, Johore, Malay States, on roads, bridges, buildings, quarries, etc. TT 2.4: P 2.4: RC 2.4: D 2. TT 12.8: SP 2: P 10.8: RC 8.6: D 5.9. Refers to G. B. G. Hull, J. Husband, C. F. Marsh. (Applies in accordance with Sec. I, Art. I, of the By-Laws.)

1332

- (10) SCHWARZ, WILLIAM, Care, The Texas Co., Box 5, Jacksonville, Fla. (Age 22. Born Baltimore, Md.) 1928 B. E. in Civ. Eng., The Johns Hopkins Univ. Summers 1922 and 1923 Chairman, The Baltimore & Ohio R. R. TT 4: P 4. Refers to T. F. Comber, Jr., S. C. Dunlop, J. H. Gregory, F. W. Medaugh, E. Stimson, J. T. Thompson.

1333

- (11) SIMONDS, ANDREW WARREN, 1441 Welton St., Denver, Colo. (Age 29. Born Austin, Tex.) 1921 B. S. in C. E., and C. E., Univ. of Tex. TT 4: P 4. July to Dec. 1918 with U. S. Army, 2 months with Engrs. TT 0.1: SP 0.1. June to Oct. 1920 Res. Engr., Brown County, Tex., in charge of construction of 15 miles of State and Federal Aid highway. TT 0.3: P 0.3: RC 0.3. June 1921 to June 1923 Asst. City Engr., Paris, Tex., surveying, planning and supervising construction of pavements, curbs, sidewalks and sewers, in charge of survey party, making preliminary surveys for water-works and (one year) construction work on pipe lines, power house and water-works. TT 2: P 2: RC 1. June to Sept. 1923 Asst. County Engr., Wise County, Tex., Chf. of Party on surveys, and making plans and supervising construction on State highways. TT 0.3: P 0.3: RC 0.3. Sept. 1923 to Jan. 1927 Instructor in Mech. Drawing and Descriptive Geometry, Texas Agricultural and Mechanical Coll.; summers on construction and architectural work. TT 3.5: P 3.5. Jan. 1927 to date Asst. Engr., U. S. Bureau of Reclamation, Denver office, designing and checking designs of dams and canal structures; research work with arch dams, experimental equipment, materials, etc. TT 1.5: P 1.5: RC 0.5: D 0.5. TT 11.7: SP 0.1: P 11.6: RC 2.1: D 0.5. Refers to E. C. H. Bantel, I. E. Houk, J. L. Savage, B. W. Steele, T. U. Taylor, M. C. Welborn.

1334

- (1) SINGH, GHATAURA PAKHAR, 39 Fifty-Eighth St., Rangoon, Burma, India. (Age 30. Born Jagroon, Punjab, India.) 1926 received Diploma as Associate, Technological Inst. of Great Britain, London, England. May 1915 to Sept. 1917 Subordinate Engr., Rangoon Town Lands Reclamation Works Div., Public Works Dept., Burma on construction of highways and drains, surveying, leveling and general office work. TT 2.1: SP 0.9: P 1.8: RC 1.8. Nov. 1917 to June 1919 Subordinate Engr. (Upper), Military Rys., Mesopotamia, on construction of railroads, embankments, canals, buildings, surveying and leveling. TT 1.6: P 1.6: RC 1.6. Oct. 1919-Sept. 1921 with Mesopotamian Expeditionary Forces, on construction of buildings, surveying, leveling, etc., under Deputy Director of Works (upper subordinate). TT 2: P 2: RC 2. Sept. 1921-April 1923 Supervisor with Cotterell & Greig, Ltd., Engrs., Bara Mesopotamia on hospital construction, setting out buildings, surveying, etc., preparing quantities, bills, etc., drawings, general office work. TT 1.6: P 1.6: RC 1.6. May to Oct. 1923 Drawing Office Asst. and Engr. with Stevens & McKnight, Archts., on reinforced concrete building construction and drawings. TT 0.5: P 0.5: RC 0.5. Nov. 1923-Jan. 1924 Asst. Engr., Knapp & Co., Reinforced Concrete Specialists, on reinforced concrete building construction, petty designs, etc. TT 0.2: P 0.2: RC 0.2: D 0.2. April to Nov. 1924 Supervisor of bridge construction, surveying and leveling (under Dist. Engr.), Govt. Rys., Mesopotamia. TT 0.5: P 0.5: RC 0.5. May 1926-Jan. 1928 Upper Subordinate in charge of highway construction, surveying and leveling, Rangoon Port Commrs. (under Supt. of Works). TT 1.7: P 1.7: RC 1.7. Feb. 1928 to date Upper Subordinate Engr. on river water investigations, Public Works Dept., Govt. of Burma, survey work, etc. TT 0.7: P 0.7: RC 0.7. TT 10.9: SP 0.3: P 10.6: RC 10.6: D 0.2. H. C. Lott, K. Singh. (Applies in accordance with Sec. I, Art. I, of the By-Laws.)

1335

- (1) **SMITH, PETER ANTHONY**, 66 Stanley Road, South Orange, N. J. (Age 46. Born Newark, N. J.) June 1901 to date Treas., Buyer, Asst. Mgr., Dept. Mgr., Executive, The A. P. Smith Mfg. Co., East Orange, N. J., water-works supplies and special machinery, in charge of plant layout, construction, maintenance, etc.; also, since May 1927 Village Trustee, South Orange, in charge of streets, sewers, parks, etc., and Member of Water, Bldg. Code and other Committees, and since May 1928 Member, Joint Meetings constructing joint sewer for East Orange, Hillside, Irvington, Millburn, Newark, South Orange, Summit, Union and West Orange; and for maintenance of joint sewer between Irvington, Millburn, Newark, South Orange, Summit and West Orange. TT 24.5: SP 2.5: P 22: RC 9: D 3. Refers to F. F. Longley, E. S. Rankin, I. T. Redfern, F. A. Reimer, J. F. Scrimshaw.

1336

- (10) **SMITH, TRUMAN ALDRICH**, 52 North Monterey St., Mobile, Ala. (Age 42. Born University, Ala.) 1905 B. S. in Eng., 1906 C. E., and 1907 Min. E., Univ. of Ala. TT 4: P 4. June to Nov. 1906 Asst. to J. E. Buck, Mobile, Ala., on general engineering, land surveying, railroad location and construction, and designing. TT 0.5: SP 0.1: P 0.4: RC 0.4: D 0.1. Dec. 1906 to May 1907 Asst. Engr., M. of W., Mississippi Central R. R., on location construction and maintenance. TT 0.4: P 0.4: RC 0.4. June to Nov. 1907 and March 1908 to June 1918 Jun. Engr., U. S. Army Eng. Dept., in charge of hydrographic party on harbor mapping and improvement, and (after March 1908) of hydrographic survey party on river and harbor improvement, designing marine railway, barges, piers, buildings, etc. TT 10.7: P 10.7: RC 10.7: D 2. Nov. 1907 to Feb. 1908 Asst. Engr., Yolanda Coal & Coke Co., mine and topographic mapping and surveying, etc. TT 0.3: P 0.3: RC 0.3. June 1918 to June 1921 Chf. Engr., Henderson Shipbuilding Co., construction of marine railway and general operation of ship repair plant. TT 3: P 3: RC 3: D 0.5. June 1921 to Feb. 1922 in private practice of engineering. TT 0.7: P 0.7: RC 0.7: D 0.2. Feb. 1922 to Feb. 1924 Engr., Todd Shipbuilding Co., Mobile, Ala., designing and constructing piers, slips, foundations, etc., also machinery and structural design and erection. TT 2: P 2: RC 2: D 1. Jan. 1925 to date Asst. City Engr., Mobile, on street and sewer improvement. TT 2.7: P 2.7: RC 2.7. TT 24.3: SP 0.1: P 24.2: RC 20.2: D 1.8. Refers to H. Austill, C. D. Batson, J. P. Ewin, W. L. Fulton, G. K. Little, J. R. Peavy, L. C. Smith.

1337

- (11) **SMITH, WILLIAM HENRY**, 1984 Guy St., San Diego, Cal. (Age 33. Born Boston, Mass.) 1915 B. S., Mass. Inst. Tech. TT 4: P 4. June 1915 to Sept. 1916 Draftsman, Instrumentman and Inspector with E. Worthington, Dedham, Mass., on surveying, drafting and inspection of construction. TT 0.6: SP 0.6. Sept. 1916 to June 1917 Draftsman, S-M-I Eng. Co., Boston, Mass., on structural steel and reinforced concrete design and drafting, also worked on Taylor & Thompson's *Concrete, Plain and Reinforced*. TT 0.4: SP 0.4. June 1917 to date Commissioned Officer, Civ. Engr. Corps, U. S. Navy; appointed Asst. Civ. Engr. with rank of Lieut. (j. g.); Oct. 1917 became Lieut. (Temporary rank); June 1920 Lieut., June 1925 Lieut. Commander, and Dec. 1925 Civ. Engr., engaged as follows: July to Aug. 1917 at U. S. Naval Acad., instruction in naval procedure; Aug. to Sept. 1917 Asst. to Public Works Officer, Navy Yard, Norfolk, Va., on construction program; Sept. 1917 to April 1918 Officer in Chg., Arundel Sand & Gravel Co., Baltimore, Md., supervised production and shipping to Norfolk Navy Yard; April 1918 to Aug. 1920 Design Mgr., Public Works Office, Norfolk Navy Yard; supervised drafting room on \$15 000 000 construction program; also Officer in Chg., completion and commissioning of 1 000 ft. dry dock; and (8 months) Acting Public Works Officer; Aug. to Dec. 1920 Asst. Public Works Officer, Navy Yard, Charleston, S. C.; Contr. Mgr. and Gen. Executive; Dec. 1920 to May 1924 Asst. Public Works Officer, Naval Operating Base, Hampton Roads, Va., Gen. Executive, in charge contracts, station labor force, designs, specifications, etc.; also (6 months) Acting Public Works Officer; May 1924 to Oct. 1926 Public Works Officer, 15th Naval Dist. and Naval Operating Base, Canal Zone, full charge construction, maintenance and operation, public works and utilities; planning 20-year development program for Naval Shore establishment in Canal Zone; since Dec. 1926 Asst. Public Works Officer, 11th Naval Dist. and Naval Operating Base, San Diego, Cal., Gen. Executive, co-ordination of Project Mgrs. on \$2 000 000 construction; since March 1927 Officer in charge of drafting room. TT 11: SP 0.1: P 10.9: RC 10.9: D 9.9. TT 16: SP 1.1: P 14.9: RC 10.9: D 9.9. Refers to R. E. Bakenhus, L. E. Gregory, F. R. Harris, G. A. McKay, P. L. Reed, H. R. Stanford, D. C. Webb.

1338

- (5) **STINCHCUM, WILLIAM ROBERT**, 7 East Pleasant St., Baltimore, Md. (Age 21. Born Baltimore, Md.) 1928 B. S., Sheffield Scientific School, Yale Univ. TT 4: P 4. Refers to C. T. Bishop, R. S. Kirby.

1339

(4) TAYLOR, EDWARD RALPH, 24 La Salle Ave., Trenton, N. J. (Age 30. Born Trenton, N. J.) Prof. Engr. and Land Surveyor, State of New Jersey. 1918 Graduate in Elec. Eng., Drexel Inst. (Evening course). Oct. to Dec. 1918 Student, E. E. course, Lafayette Coll., Easton, Pa. June 1916 to July 1918 Chf. Draftsman, Public Service Corporation of New Jersey, Div. Office, at Trenton, drafting and transmission-line design; field work as Instrumentman and Chf. of Party in survey of transmission line between Mt. Holly and Camp Dix. TT 1.1: SP 1.1. July to Oct. 1918 Elec. Draftsman and Designer in office of Plant Engr., at Harriman (Pa.) Ship Yard, on industrial wiring and substation design. TT 0.1: SP 0.1. Jan. 1919 to date with John A. Roebling's Sons Co., Trenton, N. J., until Jan. 1928 successively as Asst. Engr. in Tramway and Bridge Dept., and in Wire Rope Div., on design and erection of tramways and suspension bridges, studying wire rope uses in mines, oil fields, logging, coal and ore handling equipment, also field work during erection of cables for Bear Mountain-Hudson River Bridge and Philadelphia-Camden Bridge; since Jan. 1928 Asst. Res. Engr., Hudson River Bridge. TT 8.7: SP 1: P 7.7: RC 7: D 0.7. TT 9.9: SP 2.2: P 7.7: RC 7: D 0.7. Refers to M. B. Case, C. E. Chase, A. Dana, W. E. Joyce, R. A. Pendergrass, H. D. Robinson, D. B. Steinman.

1340

(12) THEUER, ARTHUR ULRICH, Box 84, Tacoma, Wash. (Age 24. Born De Soto, Mo.) 1928 A. B. in C. E., Stanford Univ. TT 4: P 4. At present Laborer, U. S. Geological Survey, erecting gaging stations, etc. Refers to C. Moser, L. B. Reynolds, E. C. Thomas, C. B. Wing.

1341

(10) THOMPSON, ALBERT NESMITH, P. O. Box 5, Calderwood, Tenn. (Age 28. Born Washington, D. C.) 1922 B. S. C. E., Univ. of Idaho. TT 4: P 4. Sept. 1922 to June 1923 Post-Graduate Student in Hydraulics and Hydr. Constr., Cornell Univ. July 1923 to March 1924 Instrumentman and Chf. of Party, until Oct. 1923 on reservoir and damsite surveys for Stanley Basin Irrigation Project near Boise, Idaho, then on 65-mile canal survey, including topography for Empire Irrigation Dist., Bancroft, Idaho; Asst. on final estimates of cost and design of irrigation structures. TT 0.7: P 0.7: RC 0.5: D 0.1. Sept. 1924 to June 1925 Office and Designing Engr. on \$220,000 project, including 10 miles of large canal with small diversion dam and two large gate installations; had charge of contractors estimates and design. TT 0.8: P 0.8: RC 0.8: D 0.2. June 1925 to April 1927 Asst. County Engr., Bannock County, Idaho, in charge of field surveys; Asst. Engr. on road and bridge construction, in office and on design. TT 1.8: P 1.8: RC 1.3: D 0.6. April to Aug. 1927 Instrumentman, Tallasseee Power Co., on power-house, dam, pipe line and tunnel construction on hydro-electric development. TT 0.3: P 0.3. Aug. 1927 to date Instrumentman and Field Asst., Knoxville Power Co., on hydro-electric development surveys; at present Asst. Engr. in charge of tunnels, penstocks and surge chamber construction. TT 1: P 1: RC 1. TT 9.6: P 9.6: RC 3.6: D 0.8. Refers to E. S. Andersen, G. N. Carter, J. B. Hays, B. S. Philbrick, P. H. Pickett, J. E. S. Thorpe.

1342

(7) THOMPSON, MAXWELL HINE, 513 Thompson St., Ann Arbor, Mich. (Age 21. Born Fenton, Mich.) 1928 B. S. in C. E., Univ. of Mich. TT 4: P 4. Refers to C. O. Carey, W. J. Emmons, T. J. Mitchell, R. L. Morrison, R. H. Sherlock, R. S. Swinton, J. S. Worley.

1343

(13) TIBBETTS, SYDNEY ARNOLD, 1613 Josephine St., Berkeley, Cal. (Age 48. Born Nekimi, Wis.) 1904 S. B. in C. E., Univ. of Cal. TT 4: P 4. March 1905 to date at Lick School, San Francisco, Cal. as Teacher of general and industrial chemistry (3-year course), last 2 years involve chemical and physical examination of engineering materials, cement, steel, rock, etc. 1906-1909 underground water investigations in Livermore Valley; 1908 to 1914 testing engineering materials and geological investigations, Alameda County; 1911 to 1915 testing water, geological data and engineering materials, City of Richmond; 1916 to 1921 geology and water testing of Wild Horse Valley, and Hydr. Engr. in charge of underground water and geological investigations in Napa and Gordon Valleys, City of Vallejo; 1921 to 1928 geology of Fall River Valley for Glenn Colusa, water investigations and alkali in Fall River, for McArthurs; 1920 to date Geologist and Chemist for Nevada Irrigation Dist., in charge of character and proportioning of concrete, and all geological matters in tunnels and dams; 1926 to date geological investigations and tests of materials, Lovelock Irrigation Dist.; 1918 investigations of materials of San Pablo Dam, East Bay Water Co.; 1911 to date studies and tests of American Rolling Mill Co.'s products for California Corrugated Culvert Co., Berkeley; 1922 to date geological studies and tests for Abbott A. Hanks, Inc. TT 23.5: P 23.5: RC 6.9: D 1.2. TT 27.5: P 27.5: RC 6.9: D 1.2. Refers to C. Derleth, Jr., T. P. Dresser, Jr., E. C. Eaton, G. A. Posey, F. H. Tibbetts.

1344

(10) WATSON, JOHN DARGAN, Greenwood, S. C. (Age 23. Born Greenwood, S. C.) 1925 A. B., Furman Univ. 1928 B. S. in Civ. Eng., Univ. of N. C. Summers 1920 and 1924 Rodman, Greenwood (S. C.) County Highway Comm. and (1924) Quebec Development Co., Ltd. Sept. 1924 to July 1925 (part time while student) Draftsman, J. E. Sirrine & Co., Greenville, S. C. Nov. 1926 to Sept. 1927 Student Engr., M. of W. Dept., Southern Ry., Rodman. TT 0.2: SP 0.2. TT 4.2: SP 0.2: P 4. Refers to G. M. Braune, F. H. Cochran, T. F. Hickerson, T. Saville, T. Spelden.

1345

(6) WELLS, JULIUS EZEKIEL, 204 West Main St., Uniontown, Pa. (Age 27. Born De Valls Bluff, Ark.) 1926 B. S. in C. E., Pa. State Coll. TT 4: P 4. July 1926 to date Asst. Eng. Corps, Pennsylvania R. R. TT 1.3: SP 1: P 0.3: D 0.3. TT 5.3: SP 1: P 4.3: D 0.3. Refers to R. O'Donnell, R. L. Sackett, E. D. Walker.

1346

(9) WERNER, TAGE, 15614 Delaware Ave., Lakewood, Ohio. (Age 30. Born Copenhagen, Denmark.) 1918 Bldg. Artisan, Coll. of Tech. Soc. of Copenhagen. 1923 B. S. in C. E., Royal Tech. Coll. Copenhagen. TT 4: P 4. April to Sept. 1918 Draftsman and Designer with Christiani & Nielsen, Contrs., Copenhagen, Denmark. TT 0.2: SP 0.2. Sept. 1918 to Jan. 1923 student. Nov. 1923 to Oct. 1927 Asst. Engr., Bridge Dept., N. K. P. R. R. Co., designing, drafting and some inspection. TT 3.9: P 3.9: RC 3.1. Oct. 1927 to date Designer, Cleveland Union Terminals Co., designing and estimating. TT 0.9: P 0.9: RC 0.9. TT 9: SP 0.2: P 8.8: RC 4. Refers to F. Feher, F. L. Gorman, H. Kercher, C. P. Marsh, G. H. Tinker, N. Welden.

1347

(15) WHITE, JOHN LESTER, Bastrop, La. (Age 36. Born Chicago, Ill.) 1913 B. S., La. State Univ. TT 4: P 4. Summer 1911, June 1913 to April 1915 and Sept. 1916 to April 1917 with Southern Pacific R. R. Co., first with location party, later Rodman and Leveler, and after Sept. 1916 Asst. Engr., M. of W. Dept., Lafayette, La., on track layouts, yards and station construction, drainage, etc. TT 1.5: SP 0.9: P 0.6: RC 0.6. April to Nov. 1915 in private practice with W. S. White, on surveys for plans and construction of drainage projects, etc. TT 0.6: P 0.6: RC 0.6. Nov. 1915 to Jan. 1916 Instrumentman and Jan. to Sept. 1916 Asst. Engr., M. of W. Dept., Louisiana & Arkansas R. R. Co., at Stamps, Ark. TT 0.8: SP 0.1: P 0.7: RC 0.7. April to Sept. 1917 Res. Engr., Red River & Gulf R. R. Co., at Lecompte, La., in charge on construction. TT 0.4: P 0.4: RC 0.4. Sept. 1917 to June 1919 with U. S. Army, as 1st Lieut., Engrs., later overseas as Capt., Co. F, 117th Engrs., 42d Div., on machine gun emplacements and trench construction; at present Major, Engr. Reserve. TT 1.7: P 1.7: RC 1.7. June 1919 to April 1922 Prin. Asst. Engr. to I. W. Sylvester, Alexandria, La., on highway and bridge construction in Rapides Parish, La. TT 2.9: P 2.9: RC 2.9: D 2.9. April to June 1922 on highway location and June 1922 to April 1923 Engr. in charge of highway and bridge construction projects, Louisiana Highway Comm. TT 1: P 1: RC 1: D 1. April to July 1923 in private practice at Lecompte, on sidewalk and street improvements and on railroad, land and subdivision work in central Louisiana. TT 0.2: P 0.2: RC 0.2: D 0.2. July 1923 to date Parish Highway Engr., Morehouse Parish, in charge of all highway and bridge design and construction (expenditure \$1 455 000) and maintenance of highway system. TT 5.1: P 5.1: RC 5.1: D 5.1. TT 18.2: SP 1: P 17.2: RC 18.2: D 9.2. Refers to T. W. Atkinson, W. B. Gregory, B. W. Pegues, A. M. Shaw, C. W. Sturtevant, I. W. Sylvester, W. H. Vance.

1348

(2) WISE, HENRY, 90 Sefton Drive, Providence, R. I. (Age 21. Born New York City.) 1928 B. S., R. I. State Coll. Summers 1926 and 1927 Draftsman and Computer, Rhode Island State Board of Roads. TT 4: P 4. Refers to C. S. Green, L. White.

1349

(12) WRIGHT, WILLIAM THEODORE, 4532 Nineteenth Ave. N. E., Seattle, Wash. (Age 23. Born San Diego, Cal.) 1928 B. S. in C. E., Univ. of Wash. TT 4: P 4. June to Aug. 1928, July to Dec. 1925, May to Sept. 1926 and June to Sept. 1927 with Isbell Constr. Co., as Chainman, Rodman, etc. (1923), set stakes and checked grades, etc. (1925) and Foreman of shovel excavation, set grade and line stakes, directed excavation, etc., in charge of night shift near Truckee, Cal. TT 0.4: SP 0.4. TT 4.4: SP 0.4: P 4. Refers to I. L. Collier, J. B. Hamilton, C. W. Harris, C. C. May, C. C. More.

1350

(4) YOUNG, FREDERICK WILLIAM, Jr., Centre Square, Pa. (Age 26. Born Philadelphia, Pa.) 1928 B. S. in C. E., Villanova Coll. TT 4: P 4. June 1928 to date Draftsman with J. B. Long, Cons. Engr., Norristown, Pa. TT 0.2: SP 0.2. TT 4.2: SP 0.2: P 4. Refers to J. B. Long, J. J. Sweeney.

## FOR TRANSFER

## FROM THE GRADE OF ASSOCIATE MEMBER

1351

(14) BUTLER, JOE BEATY, Assoc. M., Box 547, Rolla, Mo. (Elected Junior Aug. 28, 1922; Assoc. M. March 16, 1925.) (Age 33. Born Omega, Okla.) 1915 B. S. in Civ. Eng., Okla. Agri. and Mech. Coll. 1922 C. E., and 1924 M. S. in Civ. Eng., Mo. School of Mines. TT 4: P 4. June, 1915 to Feb. 1916 Chairman, Atchison, Topeka & Santa Fe Ry.; March 1916 Rodman, Missouri Pacific Ry. TT 0.4: SP 0.4. April to Sept. 1916 Rodman and Chairman, Jan. to May 1917 Field Computer, Sept. 1919 Rodman, and May to Aug. 1920 Office Computer, Interstate Commerce Comm., Div. of Valuation (after Jan. 1917 Jun. Civ. Engr. Civil Service). TT 0.7: SP 0.7. Oct. to Dec. 1916 Instrumentman, Chicago, Rock Island & Pacific Ry. TT 0.1: SP 0.1. May 1917 to Aug. 1919 with U. S. Army, until Aug. 1917 at Officers' Training Camp, Ft. Riley, Kans., then 2d Lieut., Co. B, 109th Engrs., Camp Cody, N. Mex., engineer training, and after Aug. 1918 1st Lieut., 109th Engrs., in United States and France, on hospital construction, highway repair, etc. TT 2.1: SP 0.1: P 2: RC 1. Oct. to May 1920 Instrumentman, until Nov. 1919 with W. R. Heagler & Sons, Engrs., Paragould, Ark., then with County Engr., Bourbon County, Ft. Scott, Kans., highway surveying. TT 0.3: SP 0.3. Sept. 1920 to Sept. 1922 Instructor, Sept. 1922 to Sept. 1923 Asst. Prof., and Sept. 1923 to date Associate Prof., of Civ. Eng., School of Mines and Metallurgy, Univ. of Missouri, also Jan. 1921 to Jan. 1925 Surveyor for Phelps County, Mo., in complete charge of land surveys; summer 1923 Draftsman, American Bridge Co., Gary, Ind., summer 1928 Geologist (Surveyman), U. S. Engr. Office, Kansas City, Mo., river reconnaissance, Missouri River tributaries in Montana. TT 8: P 8: RC 6: D 5. TT 15.6: SP 1.6: P 14: RC 7: D 5. Refers to T. R. Agg, H. C. Beckman, F. M. Dawson, E. G. Harris, A. L. Hyde, C. V. Mann, A. Marston, W. M. Wilson.

1352

(1) FROST, LLOYD GARNER, Assoc. M., R. F. D. No. 19, New Brunswick, N. J. (Elected May 19, 1924.) (Age 34. Born Redland, Ore.) Registered Prof. Engr., Oregon, Louisiana and Arkansas. 2 years student, Oregon Agricultural Coll. TT 1: P 1. Feb. 1912 to March 1913 Engineer, U. S. Engr. Dept., Dredge Clatsop. TT 0.5: SP 0.5. March 1913 to Feb. 1914 Transitman, Levelman and Draftsman on construction of sewers, pavement, subdivision. TT 1: P 1. Feb. 1915 to May 1916 Transitman and Draftsman, Copper River & North Western Ry. TT 1: P 1: RC 0.5. June 1916 to June 1917 Instrumentman on location and Res. Engr. on construction, Alaskan Eng. Comm. TT 1: P 1: RC 1. June 1917 to May 1919 Hospital Sergt., U. S. Army, in charge of statistical office. July 1919 to Feb. 1920 Chf. of Party, on triangulation, timber cruising and mapping, U. S. Forest Service. TT 0.7: P 0.7: RC 0.7. Feb. 1920 to Jan. 1921 Office Engr., Multnomah County, Ore. TT 1: P 1: RC 1: D 0.5. Jan. 1921 to Feb. 1922 Instrumentman, Oregon Western R. R. & Navigation Co. TT 1: P 1: RC 0.5. March to Nov. 1922 Asst. Engr., Matanuska Dist., Alaskan Eng. Comm., mine surveying, railroad and road location, construction, etc. TT 0.9: P 0.9: RC 0.9. Aug. 1922 to Feb. 1923 Draftsman, City of Portland, Ore. TT 0.6: P 0.6: D 0.3. Feb. 1923 to June 1924 Chf. Draftsman with Hedrick & Kremers, on bridge work (\$6 000 000). TT 1.4: P 1.4: RC 1.4: D 0.7. June 1924 to Feb. 1927 member of firm, Hedrick & Frost, Cons. Engrs., New Orleans, La., on design and construction, TT 1.7: P 1.7: RC 1.7: D 1.7. Feb. 1927 to Feb. 1928 Cons. Bridge Engr., with James W. Billingsley, on designs, report, and estimates. TT 1: P 1: RC 1: D 1. April 1928 to date Chf. Bridge Designer, New Jersey State Highway Comm., in charge of construction of \$1 500 000 arch bridge over Raritan River. TT 0.4: P 0.4: RC 0.4: D 0.2. TT 14.2: SP 0.5: P 13.7: RC 10.1: D 5.4. Refers to J. W. Billingsley, A. M. Blodgett, J. B. Converse, I. G. Hedrick, C. W. Hughes, O. Laurgaard, A. J. Negrotto, J. P. Newell, C. E. Payne, I. W. Sylvester.

1353

(7) GIFFELS, WILLIAM CHARLES, Assoc. M., 624 Grand Rapids National Bank Bldg., Grand Rapids, Mich. (Elected Junior June 24, 1914; Assoc. M. Sept. 11, 1917.) (Age 39. Born St. Johns, Mich.) 1913 B. C. E., Univ. of Mich. TT 4: P 4. Sept. 1910 to May 1911 and Aug. to Oct. 1912 with Clinton County (Mich.) Drain Commr. as Instrumentman in charge of party surveying drains and Inspector on construction of drains and bridges, and (1912) in charge of survey of 10 miles of river for dredging. TT 0.6: SP 0.4: P 0.2: RC 0.2. May 1911 to July 1912 with L. E. Myers Co., Chicago, Ill., as follows: May to Sept. 1911 Instrumentman on construction of hydro-electric plant on Illinois River at Marcellus, Ill.; Sept. 1911 to Jan. 1912 Instrumentman and Foreman in charge of bridge work on construction of Chicago, Anamosa & Northern R. R. in Iowa; Jan. to April 1912 Drafts-

man on reconstruction of electric railway and steam power plant at Ishpeming, Mich.; April to July 1912 Res. Engr. in charge of construction of C. A. & N. R. R. TT 1: SP 0.2: P 0.8. July 1913 to June 1914 with Detroit Edison Co., as Draftsman and Inspector on construction of Connors Creek Station. TT 0.7: SP 0.2: P 0.5. June 1914 to May 1917 and Sept. 1919 to Jan. 1920 with Fargo Eng. Co., Jackson, Mich., as follows: June 1914 and Jan. to June 1915 Draftsman on design of steam and water-power plants; July 1914 to Jan. 1915 Res. Engr. in charge of construction of 500-ft. double-track concrete arch bridge at Grand Rapids, Mich.; June 1915 to March 1916 Res. Engr. and Supt. of Constr., of 4 000-kw. steam power and central heating plant at La Crosse, Wis.; March 1916 to May 1917 Designer of steam and water-power plants; Sept. 1919 to Jan. 1920 in charge of design of 300-ft. combined dam and concrete arch bridge at Flint, Mich. TT 3.1: SP 0.2: P 2.9: RC 1.4: D 1.5. June 1917 to Aug. 1919 with U. S. Army, until Aug. 1917 at First Officers' Training Camp, Ft. Sheridan, Ill., and Ft. Leavenworth, Kans., commissioned 1st Lieut., 310th Engrs., then at Camp Custer, Mich., training troops; after July 1918 in Northern Russia, in charge of road and bridge construction, defences, demolitions, etc. TT 2.1: SP 0.1: P 2: RC 1. Feb. 1920 to Feb. 1925 member of firm, Burd & Giffels, Civ. Engrs., Grand Rapids, made investigations and reports on 27 water-power projects, including reports on storage sites on Aroostook River, Maine, and on water-works improvements at 15 Michigan cities, survey and report on development of 55 miles of Licking River, Ky., design and supervision of construction of water-works improvements, including 500 000-gal. reservoir at St. Louis, new pumping equipment at Buchanan, Grand Ledge, Ithaca, etc., water-power installations at Allegan, Thompsonville and Traverse City, Diesel engine plants at Portland and Petoskey. TT 5.1: P 5.1: RC 5.1: D 2. March 1925 to date Member of firm, Burd, Giffels & Hamilton (at present Giffels, Hamilton & Weeber); work includes design and supervision of construction of two water-power plants on Thornapple River (\$600 000) and one at Hart (\$130 000), steam-power plants at Holland, Mich. (\$350 000) and at Traverse City (\$75 000), sewage-disposal plants at Ithaca, Sparta and Hastings (\$60 000), Diesel plants at Lowell and St. Louis (\$70 000), complete new water-works system at Bellevue (\$65 000) and numerous other investigations and reports, including report on flood prevention at Battle Creek, flowage survey on Fox River, Ill., reports on water power and sewage disposal projects, appraisal of power properties at Boyne Falls and Mancelona, Mich., and Rockford, Ill. (total value \$3 000 000), expert testimony in five cases involving value of water power properties, etc. TT 3.5: P 3.5: RC 3.5: D 2.5. TT 20.1: SP 1.1: P 19: RC 11.2: D 6. Refers to W. G. Fargo, H. W. King, R. H. Merrill, E. D. Rich, H. E. Riggs, C. W. Spooner, W. W. Tefft.

## 1354

(1) GOVIN, GUSTAVO LAWRENCE, Assoc. M., Medellin, Colombia. (Elected Jan. 19, 1925.) (Age 33. Born Brooklyn, N. Y.) 1920 C. E., Pol. Inst. of Brooklyn TT 4: P 4. Summer 1916 Instrumentman, Cuba Commercial, Havana, Cuba, surveying and mapping. June 1917 to April 1918 Examiner of Patents and Inventions, Naval Cons. Board of United States. TT 0.6: SP 0.2: P 0.4. April 1918 to April 1919 Ensign, U. S. Naval Reserve Force. April to Nov. 1919 with Intercean Oil Co., Azua, Dominican Republic, in charge on harbor surveys. TT 0.6: P 0.6: RC 0.6. June 1920 to Feb. 1921 Asst. Engr., Dept. of Public Works, Dominican Republic, on highway construction. TT 0.7: P 0.7: RC 0.7. Feb. to Dec. 1921 Res. Engr., West India Finance Corporation, Barahona Co., Dominican Republic, railroad and irrigation, in charge of three irrigation sections. TT 0.8: P 0.8: RC 0.8. March 1922 to Aug. 1923 Civ. Engr., Fairchild Aerial Surveys Co., Ltd., Grand Mere, Quebec, aerial photography, surveys, mapping. TT 1.4: P 1.4: RC 1.4. Aug. 1923 to June 1924 Chf. of Party, Hudson River Connecting R. R., New York Central, Selkirk, N. Y. TT 0.8: P 0.8: RC 0.8. June 1924 to June 1925 Res. Engr., Dept. of Public Works, Dominican Republic, in charge of section, highway construction. TT 1: P 1: RC 1: D 0.5. June to Aug. 1925 Civ. Engr., G. J. & F. R. R. (N. Y.), evaluation work. TT 0.2: P 0.2: RC 0.2. Aug. 1925 to June 1926 Asst. Chf. Engr., Lago Petroleum Corporation (Venezuela), triangulation, surveys, soundings, etc. TT 0.9: P 0.9: RC 0.9: D 0.9. June to Oct. 1926 Res. Engr., Glenhead Property Development. TT 0.3: P 0.3: RC 0.3. Oct. 1926 to date Locating Engr. and Sec. Engr., Carretera al Mar Contract, R. W. Hebard & Co., Colombia, on highway construction and location. TT 1.9: P 1.9: RC 1.9: D 1.9. TT 13.2: SP 0.2: P 13: RC 8.6: D 3.3. Refers to J. H. Caton, 3d, R. W. Hebard, C. W. Hudson, E. B. Karnopp, G. S. Rinehart, L. H. Walker, E. W. Wilson.

## 1355

(15) HOGG, WILLIAM THOMAS, Assoc. M., 2232 Jena St., New Orleans, La. (Elected Junior Nov. 4, 1914; Assoc. M. Sept. 12, 1921.) (Age 38. Born New Orleans, La.) 1913 B. E., Tulane Univ. TT 4: P 4. June to Sept. 1913 Instrumentman and Draftsman, Standard Oil Refinery, Baton Rouge, La. TT 0.3: P 0.3. Sept. 1913 to June 1917 In-

structor in Civ. Eng., Tulane Univ. Summer 1915 Res. Inspector on construction of concrete revetment at West End, New Orleans. TT 3.1: P 3.1: RC 2.8. June 1917 to May 1918 with Illinois Central R. R. Co. on estimates, bridge renewal surveys and estimates. TT 0.9: P 0.9. Aug. 1918 to date with Board of Comr., Port of New Orleans, as Designer on locks, etc., Inner Harbor Navigation Canal (2½ years); Chf. Draftsman (3½ years) and Asst. Engr. in charge of designing (4½ years). TT 10: P 10: RC 7.6: D 2.4. TT 18.3: P 18.3: RC 10.4: D. 2.4. Refers to J. F. Coleman, D. Derickson, M. Garsaud, W. B. Gregory, F. A. Muth, G. M. Wells, S. M. Young.

1356

(1) KELLY, HUGH AMBROSE, Assoc. M., 921 Bergen Ave., Jersey City, N. J. (Elected Junior Oct. 29, 1912; Assoc. M. May 31, 1916.) (Age 40. Born Jersey City, N. J.) 1905 to 1910 with County Engr.'s Office, Hudson County, N. J., 1905 as Rodman, Chairman and Instrumentman, 1906 and 1907 in office on preliminary design and final plans for viaduct and highway improvement, and Chf. of Party on preliminary location survey for viaduct, 1908 to 1910 Engr. in charge of construction of 14th St. Viaduct, connecting Jersey City, Hoboken and West Hoboken; 1909 also Chf. of Party locating underground structures in west Hudson County for Passaic Valley Sewer. TT 3.5: SP 1.5: P 2: RC 2: D 3. 1909 to 1911 with Div. Engr.'s Office, Public Service Corporation of New Jersey, Newark, N. J., on railway drafting and design, making railroad surveys in Hudson and Bergen Counties; made survey and plans for 2-mile connecting railroad in Bergen County, N. J. TT 1: P 1: RC 1: D 1. 1911-1912 Asst. Supt. of Constr. with William Baker, Contr., in charge on Newark plank road improvement (Lincoln Highway, Newark to Jersey City, cost over \$1 000 000). TT 1: P 1: RC 1: D 1. 1913 Engr., City Plan Comm., of Jersey City, preparing plans for development of city. TT 1: P 1: RC 1: D 1. 1913 to 1917 and 1919 to 1926 with Dept. of Parks and Public Property, Jersey City, until 1917 as Engr. in charge of design and construction of roads, bridges, retaining walls, sewers, etc., responsible for economy and maintenance of municipal buildings, purchase and design of equipment and construction of public buildings, parks, playgrounds, etc., and after 1919 Engr. and Superv. Archt., on same work, also responsible for design, construction and maintenance of piers, bulkheads, etc., in Jersey City Harbor, co-operated in design and in charge of construction of Pershing Field, Jersey City. TT 11: P 11: RC 11: D 11. 1917 to 1919 with U. S. Army, first as Private in Infantry, finally 2d Lieut., Engrs. Since then Capt., Engrs., Officers' Reserve Corps and at present Col., Engrs., N. J. National Guard. 1922 to date member of firm, Kelly & Cowan, Engrs. and Archts., Jersey City, Newark and Trenton, N. J.; work covers design of steel frame structures, etc. Cons. Engr. to Governor of New Jersey on highways, waterways, etc. and engineering features of work of Port of New York Authority; 1921 to date Member and Secy., State Board of Professional Engrs. and Land Surveyors, 1927 to date Member of State Traffic Comm. to devise uniform traffic act for New Jersey and 1928 to date Member and Pres., State Board of Archts. TT 2.6: P 2.6: RC 2.6: D 2.6. TT 20.1: SP 1.5: P 18.6: RC 18.6 D 19.6. Refers to A. S. Hamill, F. A. Reimer, J. C. Remington, Jr., C. A. Van Keuren, T. J. Wasser, N. A. Wortendyke.

1357

(12) KLEIN, ROY ALTON, Assoc. M., 966 North Capitol St., Salem, Ore. (Elected June 4, 1913.) (Age 42. Born New Haven, Conn.) 1906 Ph. B., Sheffield Sci. School. July to Oct. 1906 Transitzman, Union Pacific Ry. TT 0.2: SP 0.2. Oct. 1906 to Sept. 1907 Transitzman and Locating Engr., and Dec. 1908 to Dec. 1910 Draftsman and Res. Engr., Northern Pacific Ry. TT 2.1: SP 0.4: P 1.7: RC 1.7. Sept. 1907 to Nov. 1908 Res. Engr., Chicago, Milwaukee & Puget Sound R. R., on construction. TT 1.2: P 1.2: RC 1.2. Jan. to Sept. 1911 Instrumentman, Oregon Trunk Ry. TT 0.5: SP 0.3. Sept. 1911 to Feb. 1913 Res. Engr., Oregon Elec. Ry., on railroad and bridge construction. TT 1.4: P 1.4: RC 1.4. Feb. to Dec. 1913 Inspector, Spokane, Portland & Seattle Ry., on bridge and culvert construction. TT 0.4: SP 0.4. July 1915 to Feb. 1917 Res. Engr., Skamania County, Wash., on highway location and construction. TT 1.6: P 1.6: RC 1.6: D 1.6. Dec. 1913 to Jan. 1915 Res. Engr. on location and construction, Feb. 1917 to Jan. 1918 Locating Engr., Jan. 1918 to April 1923 Asst. State Highway Engr., and April 1923 to date State Highway Engr., all for Oregon State Highway Comm. TT 12.6: P 12.6: RC 12.6: D 12.6. TT 24.4: SP 1.4: P 23: RC 19.1: D 14.2. Refers to L. I. Hewes, C. P. Keyser, O. Laurgaard, J. R. Luper, S. Murray, J. P. Newell, C. H. Purcell.

1358

(10) LEE, JOHN CLIFFORD HODGES, Assoc. M., P. O. Box 671, Vicksburg, Miss. (Elected July 6, 1925.) (Age 41. Born Junction City, Kans.) 1909 U. S. Military Acad., West Point, N. Y. 1911 The Engr. School, U. S. Army. TT 4: P 4. Sept. 1909 to Aug. 1910 student officer under U. S. Dist. Engrs., Rock Island, Ill., Detroit and Pittsburgh, also under Chairman, Isthmian Canal Comm. Sept 1910 to Oct. 1911 Student, Engr. School, U. S.

Army, Washington Barracks, D. C. Oct. 1911 to Dec. 1912 Company Officer, 3d Bn., Engrs., Ft. Leavenworth, Kans., military engineering, bridges, demolitions. TT 1.2: P 1.2: RC 1.2: D 0.2. Jan. to March 1913 in War Dept., Washington, on plans for inaugural ceremonies. TT 0.2: P 0.2: RC 0.2: D 0.2. March-Sept. 1913 Company Officer, 2d Bn., Engrs., Texas City, Tex., on camp drainage, water supply, mounted map reconnaissance. TT 0.6: P 0.6: RC 0.6: D 0.2. Oct. 1913 to Nov. 1915 Chf. of Party, survey of Guam (9 months), Topographical Inspector, military survey of N. Luzon, Philippine Islands, instructing topographers and in charge of field work; triangulation and topographical parties; prepared *Manual for Topographers, Philippine Dept.* 1915. TT 2.3: P 2.3: RC 2.2: D 0.2. Dec. 1915 to May 1917 Asst. to U. S. Dist. Engr., Wheeling, W. Va., in charge of field construction, Dam No. 14, Ohio River, and Design Div. of Dist. Office. TT 1.5: P 1.5: RC 1.1: D 1.2. June 1917 to Feb. 1918 staff duty, Headquarters S. E. Dept., Charleston, S. C., selection of cantonment sites and inspection of construction at Camp Funston, Kans., acting as Chf. of Staff and Asst. for Operations. TT 0.7: P 0.7: RC 0.5: D 0.1. March 1918 to June 1919 with A. E. F. and A. F. in Germany, Army Staff Coll., Langres, France, Asst. Chf. Staff 82d and 89th Div., A. E. F., with British and French Armies and for St. Mihiel Offensive; Chf. of Staff, 89th Div., A. E. F., for Argonne Meuse and occupation of Germany. TT 1.3: P 1.3: RC 1.2. July 1919 in office Chf. of Engrs., Washington, D. C., military roads. TT 0.1: P 0.1: RC 0.1: D 0.1. Aug. 1919 to Aug. 1920 Asst. to Dept. Engr., Chicago, Ill., Acting C. W. S. Officer. TT 1: P 1: RC 0.4: D 0.3. Sept. 1920 to July 1923 Member, Gen. Staff Corps, Asst. Chf. of Staff for operations and training, 6th C. A., Ft. Sheridan, Ill., and for M. I. Philippine Dept., special duty in China, Japan and Dutch East Indies. TT 2.9: P 2.9: RC 2.9. Aug. 1923 to June 1926 in office, Chf. of Engrs., Washington, D. C., Chf., Intelligence Sec., military surveys and maps, Superv. Engr., Reproduction Plant, aerial mapping development, Member, Federal Board of Surveys and Maps. TT 2.9: P 2.9: RC 2.9: D 0.5. July 1926 to date U. S. Dist. Engr., Vicksburg, Miss., in charge 3d Mississippi River and Vicksburg (tributary river) Dists. TT 2.2: P 2.2: RC 2.2: D 2.2. TT 20.8: P 20.8: RC 15.5: D 5.2. Refers to L. H. Beach, C. H. Birdseye, C. E. Boesch, W. Bowie, R. L. Faris, S. C. Godfrey, E. Jadwin, C. Keller, C. W. Kutz, H. Taylor, A. M. Todd, C. H. West.

## 1359

(11) THORNBURG, LEWIS, Assoc. M., Public Works Office, 11th Naval Dist., San Diego, Cal. (Elected Dec. 15, 1924.) (Age 33. Born Nashville, Tenn.) 1914 C. E., Lehigh Univ. TT 4: P 4. June 1914 to May 1915 Private Tutor in College Mathematics, and Asst. to Bursar, Lehigh Univ. May to Oct. 1915 Draftsman, Eng. Dept., Standard Oil Co. of New Jersey, drafting and design in connection with construction of oil refineries and storage plants. TT 0.2: SP 0.2. Oct. 1915 to Feb. 1916 Draftsman, M. of W. Dept., Pennsylvania R. R. Co. TT 0.2: SP 0.2. Feb. 1916 to Oct. 1917 Sales Engr., David Lupton's Sons Co., Steel Sash Mfrs., Philadelphia, Pa., drafting, estimating and design in connection with products for lighting and ventilation. TT 0.9: SP 0.9. Jan. 1918 to date Commissioned Officer, Civ. Engr. Corps, U. S. Navy, Dec. 1917 appointed Asst. Civ. Engr. with rank of Lieut. (j. g.), July 1918 Lieut. (Temporary Rank), July 1920 Lieut., June 1926 Lieut. Commander, and July 1926 Civil Engr., engaged as follows: Jan. to Feb. 1918 instruction in naval procedure, U. S. Naval Acad.; Feb. 1918 to Dec. 1922 Asst. to Public Works Officer, 1st Naval Dist., Boston, Mass., Officer in charge of contracts for construction program (\$2 500 000); Dec. 1922 to Aug. 1923 Asst. to Project Mgr., Naval Hospitals, Bureau of Yards and Docks; Officer in charge of contracts, Naval Hospital, Washington, D. C.; Aug. 1923 to March 1925 Asst. to Public Works Officer, Navy Yard, Portsmouth, N. H., maintenance and operation, public works and utilities; also experimental work; 4 months acting Public Works Officer; since April 1925 Asst. to Public Works Officer, 11th Naval Dist. and Naval Operating Base, San Diego, Cal., Project Mgr. in charge of construction, maintenance and operation public works and public utilities, Naval Training Station, San Diego, and radio stations, 11th Naval Dist. TT 10.6: SP 0.1: P 10.5: RC 10.5: D 2.3. TT 15.9: SP 1.4: P 14.5: RC 10.5: D 2.3. Refers to L. E. Gregory, G. A. McKay, C. W. Parks, H. R. Stanford, R. M. Warfield, D. C. Webb.

## FROM THE GRADE OF JUNIOR

## 1360

(14) BARNES, ARTHUR FOREST, Jun., 1019 Hamilton Ave., St. Louis, Mo. (Elected Jan. 14, 1924.) (Age 29. Born Pattonsburg, Mo.) 1921 B. S. in Civ. Eng., Univ. of Mo. TT 4: P 4. May 1921 to April 1923 with South Western Bell Telephone Co., St. Louis, Mo., 1 year in Plant Eng. Office in charge of work for two exchanges, making plans for outside plant maintenance and new cable and line extensions, and 1 year on outside work, in Installation Dept. (4 months), Cable Dept. (6 months) and on Central Office repair work (2 months).

**TT 1.4: SP 0.4: P 1: RC 1.** April 1923 to date Civ. Engr., Supply and Purifying Sec., St. Louis Water Dept., until Oct. 1923 in office, drafting and detailling; Oct. 1923 to July 1924 Instrumentman; July to Sept. 1924 in charge of party making rock borings on pipe line; Sept. 1924 to June 1925 in office designing and drafting and some field work; June 1925 to March 1926 Res. Engr. on 2 miles waterbound macadam road, one 87-ft. 3-span concrete bridge (\$70 000) and (after Feb. 1926) on switchtrack work (\$12 000); March to Dec. 1926 Asst. Engr. on filter plant construction (\$800 000) and 100 000 000-gal. concrete reservoir (\$1 200 000); Dec. 1926 to July 1927 in office on design; since July 1927 Res. Engr. on 20 acres of concrete roof for storage basins (\$500 000). **TT 4.6: SP 0.9: P 3.7: RC 2.8: D 0.6.** **TT 10: SP 1.3: P 8.7: RC 3.8: D 0.6.** Refers to C. S. Bumann, C. M. Daily, E. E. Easterday, H. R. J. Meyer, J. C. Pritchard, S. B. Russell.

1361

**(15) BISSET, JOHN CLIFFORD,** Jun., 1107 Mercantile Bank Bldg., Dallas, Tex. (Elected Dec. 15, 1924.) (Age 28. Born Lecompton, Kans.) 1924 B. S. C. E., and 1928 C. E., Kans. Univ. **TT 4: P 4.** Summers 1922 and 1923 Asst. to County Engr., York, Nebr., on highway and bridge construction. June 1924 to date with Myers, Noyes & Forrest, Dallas, Tex., on surveys, subdivision of city additions, design and construction of sewage-disposal plants, sewers and paving, reclamation work, including hydraulic calculations for floodways, and location of levees, engineering office work. **TT 4.3: P 4.3: RC 3.3: D 0.8.** **TT 8.3: P 8.3: RC 3.3: D 0.8.** Refers to W. C. McNown, E. L. Myers, E. N. Noyes, W. J. Powell, H. A. Rice, F. A. Russell, N. H. Sayford.

1362

**(1) CANALS, JOSE MANUEL,** Jun., Box 1185, San Juan, Porto Rico. (Elected June 6, 1927.) (Age 28. Born San Juan, Porto Rico.) Licensed Civ. Engr., Porto Rico. Aug. 1920 to June 1921 Student, Villanova Coll., Sept. 1921 to Feb. 1924 Student, Civ. Eng., Cornell Univ. **TT 1.5: P 1.5.** Jan 1916 to July 1919 Asst. to J. A. Canals on surveying, leveling and estimating fire losses in buildings. **TT 1.8: SP 1.8.** July 1919 to Jan. 1920 Asst. to A. M. Martinez, C. E., on construction of "San Jorge" Church, Santurce Dist. **TT 0.3: SP 0.3.** Feb. to July 1920 Asst. to City Engr., San Juan, Porto Rico. **TT 0.3: SP 0.3.** Aug. to Sept. 1921 designed 2-story residence. Summers 1922 and 1923 Asst. Engr. to J. A. Canals, on design of water works system for San Juan. March 1924 to date Gen. Contr., designing, surveying, railroad location, appraising fire losses, etc. **TT 4.1: SP 0.5: P 3.6: RC 4: D 1.** **TT 8: SP 2.9: P 5.1: RC 4: D 1.** Refers to E. Báez Rodríguez, M. V. Domenech, R. Ramírez, A. Rodríguez, E. Totti y Torres.

1363

**(5) GONGWER, JAMES MINNICK,** Jun., 853 Van Buren St., N. W., Washington, D. C. (Elected July 11, 1927.) (Age 27. Born Akron, Ohio.) 1922 B. S. in C. E., Purdue Univ. **TT 4: P 4.** Summer 1919 Laboratory Asst., U. S. Bureau of Standards, Rubber Laboratory. Summer 1921 Machinist Helper with Stone & Webster, Baltimore, Md., on building for American Sugar Refining Co. Sept. 1922 to date Civ. Engr. with Thos. W. Marshall, Washington, D. C., until Jan. 1924 detailing structural steel and on simple design under direct supervision, and since then designing and checking structural steel and reinforced concrete structures, office and industrial buildings, theatres, retaining walls, storage bins, also supervising making and checking of structural steel details. **TT 5.3: SP 0.7: P 4.6: RC 4.6: D 4.6.** **TT 9.8: SP 0.7: P 8.6: RC 4.6: D 4.6.** Refers to W. H. Barton, Jr., W. P. Darwin, E. L. Davis, L. A. Jones, T. W. Marshall, A. J. Scullen.

1364

**(1) HAYDEN, JACKSON BIRD,** Jun., 293 Chestnut St., Nutley, N. J. (Elected May 19, 1924.) (Age 29. Born Newark, N. J.) Licensed Municipal Engr. and Land Surveyor, State of New Jersey. May 1917 to Dec. 1918 Sergeant, Co. B, First U. S. Engrs., on construction of temporary bridges and roads in United States and France (detached after Dec. 1917). **TT 0.8: SP 0.8.** Aug. to Sept. 1921 Constr. Foreman, in charge of paving and concrete construction, and May to Aug. 1923 Supt., on pavements, sewers, concrete construction, etc., W. J. D. Lynch Co., Inc., Engrs. and Contrs. **TT 0.3: SP 0.1: P 0.2: RC 0.2.** Sept. 1921 to June 1922 Asst. Supt. and Supt. for M. C. McElligot, Gen. Contr., Nutley, N. J., on pavements, sewers, etc. **TT 0.8: P 0.8: RC 0.8.** June 1922 to May 1923 Asst. Supt. and Supt., Public Service Production Co., Engrs. and Constructors, Newark, N. J., on Flisk St. outlet sewer for Jersey City, N. J. **TT 0.9: P 0.9: RC 0.9.** Aug. 1923 to May 1924 Pres., J. B. Hayden, Inc., Engrs. and Contrs., in charge of sewer construction, pavements, etc. **TT 0.8: P 0.8: RC 0.8.** May 1924 to June 1926 Asst. Eng. Dept., and Supt. of Constr., Dept. of Streets and Public Improvements, Town of Nutley, in charge of road and sewer maintenance and some construction. **TT 2.1: P 2.1: RC 1.** June 1926 to date Asst. Engr., Dept. of Public Works, Montclair, N. J., one year on construction, surveys, plans, statistics, etc., then

in charge of Bureau of Streets (maintenance 100 miles and construction approx. \$75 000 annually) and Bureau of Transportation, and snow removal. TT 2.3: P 2.3: RC 2.3. TT 8: SP 0.9: P 7.1: RC 6. Refers to W. S. Baver, H. P. Eddy, W. L. Hanavan, G. R. Hartley, H. W. Heilmann, G. R. B. Symonds, W. H. Warnock.

1365

(7) JERZ, WALTER JOHN, Jun., 12824 La Salle Boulevard, Detroit, Mich. (Elected March 14, 1927.) (Age 31. Born Ware, Mass.) 1921 B. S. in C. E., Norwich Univ. 1926 M. S. E., Univ. of Mich. TT 4: P 4. Sept. 1921 to Nov. 1925 with Illinois Div. of Highways, as Inspector on concrete pavement and bridges, Instrumentman and (1924 to 1925) Res. Engr. TT 2.8: SP 1.3: P 1.5: RC 1.1: D 0.5. Dec. 1925 to July 1926 Graduate Student, Univ. of Michigan. July to Nov. 1926 Supt. of Constr. and Costman on bridge construction, Hurden Constr. Co., Springfield, Ill. TT 0.4: P 0.4: RC 0.4. Nov. 1926 to May 1927 with Paterson Bros. of Detroit, Mich., Real Estate, on subdivision work. TT 0.5: P 0.5: RC 0.5. May 1927 to date with Detroit Water Board Dept., on tunnel work, including inspection, supervision and office work. TT 0.9: SP 0.4: P 0.5: RC 0.2: D 0.2. TT 8.6: SP 1.7: P 6.9: RC 2.2: D 0.7. Refers to A. H. Blanchard, C. M. Hathaway, R. L. Morrison, H. E. Riggs, F. T. Sheets.

1366

(1) LASSITER, RICHARD THORNTON, Jun., 261 Edgecombe Ave., New York City. (Elected March 16, 1925.) (Age 26. Born Holyoke, Mass.) 1924 S. B., Mass. Inst. Tech. TT 4: P 4. Vacations 1920-1922 designing sheet metal dies and gauges and forecasting product, National Blank Book Co., Holyoke, Mass. Sept. 1924 to March 1925 Asst. Engr., New England Telephone & Telegraph Co., Boston, Mass., in charge of appraisal of overhead and underground wire and cable plant. TT 0.5: P 0.5: RC 0.2. April to July 1925 Inspector in charge of grading, Route 97, Pennsylvania Highway Dept., Mountain Road. TT 0.3: P 0.3: RC 0.3. July 1925 to April 1926 structural design and construction cost estimating, with Henry Shenk Co., Gen. Contrs., industrial and commercial buildings. TT 0.7: P 0.7: RC 0.1: D 0.2. April to Oct. 1926 Estimator and Office Engr. with J. C. Hammond, Gen. Contr. on industrial buildings. TT 0.5: P 0.5: RC 0.2: D 0.1. Oct. 1926 to March 1927 engineering promotion, private work. TT 0.5: P 0.5. April 1927 to date with Henry Manley, Structural Engr., New York City, on sales, drafting, designing and supervising construction. TT 1.5: P 1.5: RC 1: D 0.5. TT 8: P 8: RC 1.7: D 0.8. Refers to J. B. Babcock, 3d, W. J. Barney, R. D. Black, S K. Clapp, C. A. Latimer, H. Manley, Jr., G. H. Shaw.

1367

(7) LUCAS, WILLIAM ROBERT, Jun., 2310 Glendale Ave., Detroit, Mich. (Elected Jan. 14, 1924.) (Age 29. Born Winterset, Iowa.) 1923 B. S. of Civ. Eng., Iowa State Coll. TT 4: P 4. April to Sept. 1920 and July to Sept. 1921 Rodman, and June to Sept. 1922 Instrumentman in charge of traffic survey for Maintenance Dept., Iowa Highway Comm. June to Nov. 1923 with Empire Constr. Co., about one-half of time as Timekeeper in charge of buying, payrolls, etc., remainder of time Engr. for Contr. on highway construction. TT 0.3: SP 0.1: P 0.2: RC 0.2. April to July 1924 Jun. Testing Engr., Illinois Div. of Highways, inspecting sand and gravel. TT 0.2: SP 0.2. July 1924 to Dec. 1926 Engr. Inspector, Milwaukee Sewerage Comm., 1 year in responsible charge of lateral sewer construction, 6 months Chf. of Party on topographical surveys and remainder of time on inspection of tunnel construction. TT 1.9: SP 0.4: P 1.5: RC 1. Dec. 1926 to date Inspector, Tunnels and Foundations, Dept. of Water Supply, Detroit, Mich., 1½ years being Chf. Inspector on section of tunnel, in responsible charge of surveys, concreting shift and assisting in preparation of reports and estimates. TT 1.7: SP 0.2: P 1.5: RC 1.5. TT 8.1: SP 0.9: P 7.2: RC 2.7. Refers to T. R. Agg, H. Christiansen, A. H. Fuller, H. S. Grassman, L. G. Lenhardt, W. H. Root, G. R. Young.

1368

(7) OLSON, HERBERT AUGUSTUS, Jun., 147 North Genesee Ave., Pontiac, Mich. (Elected Oct. 2, 1922.) (Age 29. Born Lawrence, Kans.) 1922 B. S. in Civ. Eng., Univ. of Kans. 1926 M. S., Univ. of Mich. TT 4: P 4. Summer 1919 Rodman and Chainman on road survey and Summer 1921 Inspector on concrete highway construction, with County Engr., Douglas County, Kans. June 1922 to May 1923 Asst. City Engr., Emporia, Kans., on design of pavements and in charge of design and construction of sanitary sewers and storm water drains. TT 0.8: SP 0.2: P 0.6: RC 0.6: D 0.6. June to Aug. 1923 Asst. Water Supt., Emporia, in charge of water purification and filtration plant improvements. TT 0.3: P 0.3: RC 0.3. Sept. 1923 to July 1924 Acting San. Engr., New Mexico State Bureau of Public Health, duties included special investigation of sewage pollution of Las Animas River. TT 0.9: P 0.9: RC 0.9. Aug. 1924 to July 1928 with Hoad, Shoecraft & Drury, Cons.

Engrs., Ann Arbor, Mich., until Feb. 1926 on design of sewers, then on investigations and design of water supply, sewerage and sewage disposal systems. Aug. 1924 to Feb. 1926 also graduate student, Univ. of Michigan. TT 1.9: SP 0.5: P 1.4: RC 1.4: D 1.4. Aug. 1928 to date Special San. Engr., City of Pontiac, Mich., in charge of studies and design of sewerage, drainage and sewage-disposal systems. TT 0.1: P 0.1: RC 0.1. TT 8: SP 0.7: P 7.3: RC 3.5: D 2. Refers to E. Boyce, A. J. Decker, W. R. Drury, P. S. Fox, W. C. Hoad, A. H. Jewell, G. D. Kennedy, R. L. McNamee, R. J. Paulette, J. R. Pollock, H. A. Rice, H. E. Riggs, E. C. Shoecraft, F. C. Taylor.

1369

(1) ROACH, ALDEN GALLUP, Jun., 254 Marguerita Lane, Pasadena, Cal. (Elected Dec. 15, 1924.) (Age 27. Born St. Louis, Mo.) 1923 B. S. in C. E., Univ. of Ill. TT 4: P 4. June to Oct. 1918 Rodman, and April to Oct. 1921 Ballast Inspector, Wabash R. R. TT 0.3: SP 0.3. June to Sept. 1920 Asst. Engr., Alton Southern R. R., East St. Louis, in charge of valuation survey. Oct. 1921 to Sept. 1922 Rodman and Instrumentman, and Sept. 1923 to March 1924 Transitman, Missouri Pacific R. R. TT 1.3: SP 0.2: P 1.1: RC 1. Summer 1923 Draftsman, Union Pacific R. R. TT 0.2: P 0.2. March 1924 to April 1926 Plant Engr. and Acting Master Mechanic, Laclede Steel Co., St. Louis, Mo., in charge of all engineering at Alton Plant, including drafting room and plant mechanics. TT 2: P 2: RC 2: D 1. April 1926 to April 1927 Engr. and Supt., with D. C. Bowman, Engr. and Contr., St. Louis, contracting, in charge of construction of industrial tracks, earthwork and bridges. TT 1: P 1: RC 1: D 0.5. April 1927 to date Contr. Engr., Union Iron Works of California, Los Angeles, preliminary design and contracting on industrial plants. TT 1.5: P 1.5: RC 1.3: D 1.3. TT 10.3: SP 0.5: P 9.8: RC 5.3: D 2.8. Refers to B. L. Brown, R. M. Fox, R. H. Howard, R. P. Miller, H. F. Roach, C. C. Williams.

1370

(1) SEVERUD, FRIDTJOV NICHOLAI, Jun., 4362 One Hundred Sixty-Third St., Flushing, N. Y. (Elected Dec. 15, 1924.) (Age 29. Born Bergen, Norway.) 1923 C. E., National Inst. Tech., Trondhjem, Norway. TT 4: P 4. May 1924 to April 1925 Draftsman with James Benton French, Cons. Engr., New York City, detailing steel transfer bridges, etc. TT 0.5: SP 0.5. April 1925 to date with Republic Fireproofing Co., New York City, until Nov. 1925 as Designer and Detailer, then Chf. Designer and since April 1926 Chf. Engr., detailing reinforced concrete for buildings and on design and direction of design for reinforced concrete and steel buildings. TT 3.5: P 3.5: RC 2.5: D 2. TT 8: P 8: RC 2.5: D 2. Refers to A. Brociner, W. A. Conley, J. B. French, W. H. Gravell, S. Shaw.

1371

(1) SMITH, GEORGE WASHINGTON, Jun., 44 Mead Ave., Port Chester, N. Y. (Elected May 19, 1924.) (Age 28. Born Port Chester, N. Y.) 1923 Sc. B., Brown Univ. TT 4: P 4. Summer 1922 and June 1923 to June 1924 Structural Draftsman, American Bridge Co., Trenton, N. J., detailing structural steel for mill and office buildings. TT 0.5: SP 0.5. June 1924 to June 1925 Structural Draftsman and Structural Designer, with Buck & Sheldon, Hartford, Conn., designing mill and office buildings. TT 0.9: SP 0.2: P 0.7: RC 0.7: D 0.7. June 1925 to June 1926 Structural Steel Estimator, McClintic Marshall Co., New York City, estimating steel for office and loft buildings, apartment houses and theatres and design of mill buildings and garages. TT 1: P 1: RC 0.7: D 0.3. June 1926 to Aug. 1927 Structural Designer, until May 1927 successively with Gunvald Aus Co. (1 year) and F. A. Burdett Co., New York City, designing and checking office buildings, apartment houses and hospitals, and after May 1927 with Geo. A. Just Co., Long Island City, N. Y., designing theatres and apartment houses. TT 1.2: P 1.2: RC 0.9: D 0.9. Aug. 1927 to date Structural Engr., Union Carbide & Carbon Co., New York City, designing and checking mill and office buildings. TT 1: P 1: RC 1: D 1. TT 8.6: SP 0.7: P 7.9: RC 3.3: D 2.9. Refers to H. R. Buck, S. R. Donnellon, H. P. Ralph, P. Sheldon, R. N. Shepard, C. K. Smoley, S. Wilmet.

1372

(1) WALLACE, AARON VAN DUZER, Jr., Jun., 180 East Main St., Patchogue, N. Y. (Elected Nov. 9, 1920.) (Age 31. Born Goshen, N. Y.) 1920 C. E., Cornell Univ. TT 4: P 4. Aug. 1920 to Dec. 1921 and June 1922 to June 1924 with The Foundation Co., Chicago, Ill., as Timekeeper, Field Engr. and Concrete Foreman on power-house construction, Cincinnati, Ohio, and (after June 1922) Field Office Clerk on bridge piers, Omaha, Nebr., industrial tunnel, Chicago, mine shaft, Ramsay, Mich., timekeeping, accounting and cost-keeping. TT 1.7: SP 1.7. Jan. to May 1922 Computer, with Norton Bird & Whitman, on public-utility valuation, computing value of buildings from field notes. TT 0.2: SP 0.2. Sept. 1924 to March 1925 Draftsman, H. L. Stevens Co., Structural Design Dept., on design of hotels. TT 0.3: SP 0.3. April to June 1925 Field Office Clerk, and July 1925 to March 1926 Supt., Raymond Concrete Pile Co., on foundations for buildings. TT 0.9:

**SP 0.1: P 0.8: RC 0.8.** May to June 1926 Asst. Supt., Shane Constr. Co., Syracuse, N. Y., on school construction. **TT 0.1: SP 0.1.** July to Oct. 1926 Inspector, Board of Transportation, New York City, on pile foundations. **TT 0.1: SP 0.1.** Nov. 1926 to April 1928 Jun. Engr., New York & Queens Elec. Light & Power Co., Structural Design Dept. **TT 0.9:** **SP 0.7: P 0.2: D 0.2.** May 1928 to date Contr., constructing extension to sewer system in Patchogue, N. Y. **TT 0.4: P 0.4: RC 0.4.** **TT 8.6: SP 3.2: P 5.4: RC 1.2: D 0.2.** Refers to H. B. Cleveland, L. J. Hotchkiss, C. J. McCarthy, A. G. Norton, B. L. Smith.

1373

**(5) WENTWORTH, CHARLES RUSCHENBERGER,** Jun., P. O. Box 744, Roanoke, Va. (Elected Sept. 12, 1921.) (Age 29. Born Roanoke, Va.) June to Sept. 1916 and July to Aug. 1917 Chainman, and April 1918 to April 1919 Leveler, Norfolk & Western Ry. **TT 0.7: SP 0.7.** April 1919 to date with Virginia Bridge & Iron Co. as follows: April 1919 to July 1921 Structural Draftsman, detailing bridges, mill buildings, etc.; July 1921 to April 1923 Asst. Contr. Engr., in branch offices at New Orleans, La. (1 year), and at Birmingham, Ala. (9 months), contracting, designing, etc.; while at Birmingham in charge of local contracts; April 1923 to Jan. 1925 structural drafting, at Roanoke, detailing, checking bridges, turntables and mill buildings (9 months), field checking, checking and in charge of sublet drawings, 1 200 cement plant for Clinchfield (Ga.) Portland Cement Co. and other large contracts (1 year); since Jan. 1925 Squad Leader, Engr. Dept., Roanoke, in charge of detailing, checking and supervision of fixed and movable bridges, power houses, theatres, mill buildings and conveyors, including two 350-ft. highway through spans over Yazoo River, Warren County, Miss., five 188-ft. similar spans over Colorado River, near Blythe, Cal., and 200-ft. highway swing span and approaches over Nansemond River, Norfolk, Va.; also (under construction) 550-ft. continuous through highway span over Willamette River, Lane County, Ore., and 608-ft. cantilever through highway span over Smith River, Del Norte County, Cal., four 195-ft. fixed highway spans and one 277-ft. vertical lift span, including machinery and approaches for Norfolk-Portsmouth Bridge, and four 300-ft. highway spans and one 300-ft. vertical lift span for San Mateo Bridge, San Francisco, Cal. **TT 8.9: SP 0.4: P 8.5: RC 5.3: D 1.7.** **TT 9.6: SP 1.1: P 8.5: RC 5.3: D 1.7.** Refers to P. A. Blackwell, J. E. Crawford, C. W. Haupt, L. P. Smithy, G. A. Tretter.

*The Board of Direction will consider the applications in this list not less than thirty days after the date of its issue.*